LANCE R. LEFLEUR
DIRECTOR



KAY IVEY GOVERNOR

Alabama Department of Environmental Management adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 ■ Post Office Box 301463 Montgomery, Alabama 36130-1463 (334) 271-7700 ■ FAX (334) 271-7950

JANUARY 17, 2019

MR BILL PEARSON
FIELD SUPERVISOR
US FISH & WILDLIFE SERVICE
ALABAMA ECOLOGICAL SERVICES FIELD OFFICE
1208 MAIN STREET
DAPHNE ALABAMA 36526

RE:

Cooling Water Intake Structure 316(b) Review 3M Company – NPDES Permit Application Permit Number AL0000205 Morgan County

Dear Mr. Pearson:

Enclosed is a copy of the permit application submitted to the Alabama Department of Environmental Management for the reissuance of NPDES Permit AL0000205 for 3M Company.

This application is being transmitted to your office for a 60 day review period so that the Fish and Wildlife Service has the opportunity to review the information related to the design and operation of the cooling water intake structure at this site as required by 40 CFR 125.98(h).

In addition, the Department will provide the public notice, along with a copy of the fact sheet, statement of basis, the permit application, and the draft permit to your office to provide you with the opportunity to comment as required by 40 CFR 124.10.

Please submit your comments and/or questions to Scott Ramsey via email at sramsey@adem.alabama.gov or by phone at (334) 271-7838, or in writing to the above noted address.

Scott Ramsey, Chief Industrial Section Industrial/Municipal Branch Water Division

Enclosure:

Application

pc:

ABAR.

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM) NPDES INDIVIDUAL PERMIT APPLICATION SUPPLEMENTARY INFORMATION FOR INDUSTRIAL FACILITIES

Instructions: This form should be used to submit the required supplementary information for an application for an NPDES individual permit for industrial facilities. The completed application should be submitted to ADEM in duplicate. If insufficient space is available to address any item, please continue on an attached sheet of paper. Please mark "N/A" in the appropriate box when an item is not applicable to the applicant. Please type or print legibly in blue or black ink. Mail the completed application to:

ADEM-Water Division **Industrial Section** P O Box 301463 Montgomery, AL 36130-1463 **PURPOSE OF THIS APPLICATION** ☐ Initial Permit Application for New Facility* ☐ Initial Permit Application for Existing Facility* Modification of Existing Permit Reissuance of Existing Permit Revocation & Reissuance of Existing Permit An application for participation in the ADEM's Electronic Environmental (E2) Reporting must be submitted to allow permittee to electronically submit reports as required SECTION A - GENERAL INFORMATION 3M Decatur 1. Facility Name: 3M Company a. Operator Name: Is the operator identified in A.1.a, the owner of the facility? Yes □ No If no, provide name and address of the operator and submit information indicating the operator's scope of responsibility for the facility. NPDES Permit Number: AL 0 0 0 0 2 0 5 (not applicable if initial permit application) SID Permit Number (if applicable): IU __________ NPDES General Permit Number (if applicable): ALG ______ Facility Physical Location: (Attach a map with location marked; street, route no. or other specific identifier) Street: 1400 State Docks Road State: Alabama Zip: 35601 _County: Morgan City: Decatur Facility Location (Front Gate): Latitude: 34.64070 -87.03819 Facility Mailing Address P.O. Box 2206 ___County: Morgan State: Alabama City: Decatur Zip. 35609 Responsible Official (as described on the last page of this application): Name and Title: Michelle Howell, Site Manager Address: 1400 State Docks Road _Zip: 35601 _{_State:} Alabama City: Decatur Phone Number: (256) 552-6300 Email Address: mlhowell@mmm.com **Designated Facility Contact:** Name and Title: Stacee Bland, Environmental Engineer Email Address: sbland@mmm.com Phone Number: (256) 552-6208

9.	Designated Discharge Monitoring Report (DMR) Contact:		
	Name and Title: Stacee Bland, Environmental Engineer		
	Phone Number: (256) 552-6208 Email Address	sbland@mmm.com	
10.	Type of Business Entity:		
	■ Corporation ☐ General Partnership ☐ Limited Partnership☐ Other (Please Specify)		Sole Proprietorship
11.	. Complete this section if the Applicant's business entity is a Corporation	on	
	a) Location of Incorporation: Address: 3M Center		
	City: St Paul County: Ramsey	State MN Zin	55144-1000
	b) Parent Corporation of Applicant: Name: None		
	Address:		
	City:State:	Zip:	
	c) <u>Subsidiary Corporation(s) of Applicant</u> : Name: None		
	Address:		
	City:State:		
	d) <u>Corporate Officers</u> : Name: A list of 3M Corporate officers can be found at t	he following website:	
	Address: http://investors.3m.com/governance/corporate	e-officers/default.aspx	
	City:State:		
	Name:		
	Address:		
	City:State:		
	e) Agent designated by the corporation for purposes of service: Name: Not applicable		
	Address:		
	City:State:	Zip	
12.	2. If the Applicant's business entity is a Partnership, please list the gen		
		Address:	
	71441.000	City:State:	
	City:State:Zip:	City:State:	CIV.

City:	State:		
	Otate		Zip:
Permit numbers for Applicant's previously Permits presently held by the Applicant, its			
Permit Name	Permit Number		Held By
NPDES Permit	AL0000205	3M Comp	oany
Title V Air Permit	712-0009	3M Comp	oany .
RCRA Facility Number	ALD004023164	3M Comp	pany

Identify all Administrative Complaints, Noticificant, against the Applicant, its parent core (attach additional sheets if necessary): Facility Name Facil	poration or subsidiary corporations		
TION B BUSINESS ACTIVITY			
idicate applicable Standard Industrial Classirtance:	sification (SIC) Codes for all proces	sses. If more than one	applies, list in order of
See Attachment 187-1			
b			
b			·

ADEM Form 187 10/17 m5 Page 3 of 11

l If you waste	ar facility conducts or will be conducting any of the pro- e sludge, or hazardous waste), place a check beside the	ocess ne ca	ses listed below (regardless of who tegory of business activity (check a	ather they generate wastewater, II that apply):
	Industr	rial C	ategories .	
See See SecTION	Aluminum Forming Asbestos Manufacturing Battery Manufacturing Can Making Canned and Preserved Fruit and Vegetables Canned and Preserved Seafood Cement Manufacturing Centralized Waste Treatment Carbon Black Coal Mining Coil Coating Copper Forming Electric and Electronic Components Manufacturing Explosives Manufacturing Feedlots Ferroalloy Manufacturing Feurilizer Manufacturing Foundries (Metal Molding and Casting) Glass Manufacturing Grain Mills Gum and Wood Chemicals Manufacturing Inorganic Chemicals Iron and Steel Leather Tanning and Finishing Metal F	o que	estion 2 of Section C. primary products or services (attach	g g nufacturing ng ng ag and Forming (EPA) categorical standards. n additional sheets if necessary
flow	Non-Categorical Users Only: Provide wastewater flor schematic (Figure 1), enter the description that con ment units as well as monitoring and discharge po	respo	ands to each process. (The flow	schematic should include a
Najanjanin-Neman	Last 12 Months (gals/day) Process Description Highest Month Avg. Floo applicable		Highest Flow Year of Last 5 (gals/day) Monthly Avg. Flow	Discharge Type (batch, continuous, intermittent)

If batch	n discharge occurs or will occ	cur, indicate: [new	facilities may	estimate.]			
a.	Number of batch discharge	es: Not applica	ble pe	er day			
b.	Average discharge per bat	ch:		(GPD)			
C.	Time of batch discharges	(days of we	at	(hours of	dav)		
d.	Flow rate:	(days or we	gallons/m	,	, 		
е.	Percent of total discharge:						
o.	Non-Process Disch	arges (e.g.	(gals	! Months s/day) hth Avg. Flow	(g	ow Year of Last 5 als/day) ly Avg. Flow	
	Not applicable	ig water	Tugiledt Mer				
wastev privatel Fo ea	replete this Section only if y water to a water of the State ly-owned treatment works, characteristics are Categorical Users: Provide characteristics or processes or processes or processes of processes.	e. If Categorical water the wastewater disposed processes	rastewater is dispropriate special spe	ischarged exclusive ace below and processor or production (which ocess flow schema	ely via an indire eed directly to p thever is application (Figure 1, p	ct discharge to a public o part 2.c . able by the effluent guide	or alines) for
2a.					T	n of Dinaharan Flour	
	Regulated Process See Attachment 187-2	Applicable Categ	jory A	pplicable Subpart		e of Discharge Flow continuous, intermittent)	-
2b.							_
20.	Process Description See Attachment 187-2	Last 12 Me (gals/day), (lbs. Highest Month	/day), etc.	Highest Flow Yea (gals/day), (lbs/ Monthly Ave	day), etc.	Discharge Type (batch, continuous, intermittent)	• •
	* Reported values should example, flow (MGD), prod	duction (pounds	per day), etc.		eral productio	n-based standard. Fo	r
If batch	discharge occurs or will occur	Variable					
a.	Number of batch discharge	Variable	•	r day			
b.	Average discharge per bate	Sun-Sat		(GPD) 0:00-24:00			
C.	Time of batch discharges	(days of we	at ek)	(hours of c	lay)	<u>-</u>	
d.	Flow rate: Variable		gallons/mi	nute			
e.	Percent of total discharge:	Variable	**************************************				

Non catego Process Des	orical	st 12 Months (gals/day) t Month Avg. Flow	Highest Flow Yea (gals/da Monthly Avg	y)	Discharge Type (batch, continuous, intermittent)
See Attachment	187-2				
-		ate: [new facilities may e ariablepe	estimate.] er day		
b. Average disc	harge per batch:	Variable	(GPD)		
c. Time of batch		Sat at a	0:00-24:00 (hours of c	day)	
d. Flow rate: <u>V</u>	ariable	gallons/m	inute		
e. Percent of to	tal discharge: <u>Varia</u>	ble			
i.					
	n-Process Discharges	s (gals	Months s/day)	(ga	w Year of Last 5
	non-contact cooling wa achment 187-2	ater) Highest Mor	ith Avg. Flow	MOTUTI	Avg. Flow
Management and American Americ	Market or an appropriate to the second secon				
	complete C.3 – C.6.	acility? 🗌 Yes 🛮 🔳 No	o (If no, continue to	C.4)	
Do you share ar	n outfall with another for outfall, provide the fo		o (If no, continue to NPDES Permit No.		re is sample collected by Applicant?
Do you share ar For each shared Applicant's	n outfall with another for outfall, provide the fo	ollowing:	NPDES		
Do you share ar For each shared Applicant's Outfall No.	n outfall with another for discountfall, provide the formal Name of Other Not applicable	ollowing: Permittee/Facility	NPDES Permit No.	Whe	
Do you share ar For each shared Applicant's Outfall No.	n outfall with another for discountfall, provide the formal Name of Other Not applicable	ollowing: Permittee/Facility	NPDES Permit No. r continuous waste	Whe	by Applicant?
Do you share ar For each shared Applicant's Outfall No.	n outfall with another for doutfall, provide the for Name of Other Not applicable Dlan to have, automatic	ollowing: Permittee/Facility c sampling equipment o	NPDES Permit No. r continuous waste	water flow meter	by Applicant?
Do you share ar For each shared Applicant's Outfall No.	n outfall with another for outfall, provide the formal Name of Other Not applicable Dian to have, automatic	Permittee/Facility C sampling equipment o Flow Metering Sampling Equipment	NPDES Permit No. r continuous wastev Yes No Yes No	water flow meter	by Applicant?
Do you share ar For each shared Applicant's Outfall No. Do you have, or p	Name of Other Not applicable Current: Planned: th a schematic diagrameter.	Permittee/Facility c sampling equipment of the sewer system in	NPDES Permit No. r continuous waster Yes No Yes No Yes No	water flow meter N/A N/A N/A N/A N/A t or future location	by Applicant? ing equipment at this facility? on of this equipment and descr
Do you share ar For each shared Applicant's Outfall No. Do you have, or p If so, please attacthe equipment be Continuous flow n	Name of Other Not applicable Current: Planned: th a schematic diagrameter. Current: Current: Current:	Permittee/Facility c sampling equipment of the sewer system in	NPDES Permit No. r continuous wastev Yes No Yes No Yes No dicating the present	water flow meter N/A N/A N/A N/A t or future location	by Applicant? ing equipment at this facility? on of this equipment and descr
Do you share ar For each shared Applicant's Outfall No. Do you have, or pure the equipment be Continuous flow nat these three local. Are any process of the each of the equipment be continuous flow nat these three local.	Name of Other Not applicable Data to have, automatic Current: Planned: Ch a schematic diagramations. Continuous pH	Permittee/Facility c sampling equipment of Flow Metering Sampling Equipment Flow Metering Sampling Equipment on of the sewer system in DSN 001, 001A, and 001 monitoring is currently as planned during the new	NPDES Permit No. r continuous wastev Yes No Yes No Yes No dicating the present IC. Portable ISCO solorovided at DSN 00	water flow meter N/A N/A N/A N/A t or future locations amplers are used 1.	by Applicant? ing equipment at this facility? on of this equipment and descr
Do you share ar For each shared Applicant's Outfall No. Do you have, or pure the equipment be Continuous flow nat these three local are any process of Yes No.	Name of Other Not applicable Dlan to have, automatic Current: Planned: Ch a schematic diagramations. Continuous pH Changes or expansion (If no, continue to C.6)	Permittee/Facility c sampling equipment of Flow Metering Sampling Equipment Flow Metering Sampling Equipment on of the sewer system in DSN 001, 001A, and 001 monitoring is currently as planned during the new	NPDES Permit No. Tricontinuous wastever Yes No. Yes No. Yes No. Horizontal Score Servided at DSN 00. At three years that of the present of	water flow meter N/A N/A N/A N/A t or future locations	by Applicant? ing equipment at this facility? on of this equipment and descred to collect composite sample water volumes or characteristic

		Trade Name		Chemical Composition	
		See Attachment 187-3			
For	eac	ch biocide and/or corrosion inhibitor used, please include the fo	llowing info	formation:	
	(2) (3) (4)	96-hour median tolerance limit data for organisms representa ultimately reach, quantities to be used, frequencies of use, proposed discharge concentrations, and EPA registration number, if applicable	itive of the	e biota of the waterway into which the discharge will	
		ON D - WATER SUPPLY Sources (check as many as are applicable):			
vva		Private Well		Surface Water	
		Municipal Water Utility (Specify City):		Other (Specify):	
	IF I	MORE THAN ONE WELL OR SURFACE INTAKE, PROVIDE	DATA FOI	DR EACH ON AN ATTACHMENT	
	City	ty: 2.2-2.6 MGD* Well:MGD* Well Depth	•	_Ft. Latitude: Longitude:	
	Sur	urface Intake Volume: 4.3-5.5 MGD* Intake Elevation	in Relation	on to Bottom: 522Ft.	
		ake Elevation: 538.3 Ft. Latitude: 34.648762 L			
		ime of Surface Water Source: Tennessee River (Wheeler Lake			

	. IVI	MGD – Million Gallons per Day			
Со	oling	g Water Intake Structure Information			
		ete D.1 and D.2 if your water supply is provided by an outser industry, municipality, etc)	ide source	ce and not by an onsite water intake structure? (e.	g.
1		Does the provider of your source water operate a surface water (If yes, continue, if no. go to Section E.)	er intake? `	Yes No	
			b) L	Location of Provider: Decatur, Alabama	
		c) Latitude: 34.604196 Longitude: -86.9607	18		
2	. Is	Is the provider a public water system (defined as a system whic provides only <u>treated</u> water, not raw water)?	h provides	s water to the public for human consumption or which to Section E, if no, continue.)	I
		be completed if you have a cooling water intake structure ses not treat the raw water.	or the pro	ovider of your water supply uses an intake struct	ur
	3.	Is any water withdrawn from the source water used for cooling	? 🔳 Yes	No No	
	4.	Using the average monthly measurements over any 12-month used exclusively for cooling purposes? 100 %	period, ap	pproximately what percentage of water withdrawn is	
	5.	Does the cooling water consist of treated effluent that would of (If yes, go to Section E, if no, complete D.6 – D.17)	therwise be	oe discharged? ☐ Yes ■ No	
	6.	a. Is the cooling water used in a once-through cooling system	i? ■ Ye	es 🗌 No	
		b. Is the cooling water used in a closed cycle cooling system?		es 🔳 No	

Page 7 of 11

7	When was the intake installed?	0			
7.	(Please provide dates for all major cor	nstruction/installation o	f intake com	nponents including screens)	
0	What is the maximum intake volume?	16.2 MGD			
٥.	(maximum pumping capacity in gallon	s per day)			
٥	. What is the average intake volume?	4.3-5.5 MGD			
	(average intake pump rate in gallons)	ber day average in any			
10	0. What is the actual intake flow (AIF) as	defined in 40 CFR §1:	25.92(a)? <u>4</u>	MGD	
11	1. How is the intake operated? (e.g., cor	itinuously, intermittently	y, batch) <u>CC</u>	ontinuousiy	
1:	2. What is the mesh size of the screen o	n your intake? 1/2 ind	ch space	with 18 gauge stainless steel wire	
13	3. What is the intake screen flow-through	area? 81 ft sq tota	free space	ce per sump. 5400 gpm pump in each	sump
14	4. What is the through-screen design int	ake flow velocity? $\frac{0.2}{}$	206ft/	/sec (at Low Water Level - 550 ft MSL)	
1	5. What is the through-screen actual velo	ocity (in ft/sec)? 0.10)7 ft/s∈	ec (at NWL - 556 ft MSL & AIF)	
				cleaning) Quarterly PM to clean by taking or service and washing off to remove	ut of e debris
17	7.Do you have any additional fish detra	ction technology on you	ur intake?	☐ Yes ■ No	
18	Have there been any studies to determ provide.)	mine the impact of the	intake on ac	quatic organisms? 🗌 Yes 📕 No (If yes, plea	ise
19	9. Attach a site map showing the locatio	n of the water intake in	relation to t	the facility, shoreline, water depth, etc. See Fig	jure 1-1
at the	state, either directly or indirectly via suc facility for which the NPDES application oplication:	h avenues as storm wa n is being made. Where	iter drainage	or liquids that could be accidentally discharged to e, municipal wastewater systems, etc., which are the location should be noted on a map and inclu	located
at the	facility for which the NPDES application	h avenues as storm wa n is being made. Where	iter drainage	e, municipal wastewater systems, etc., which are	located
at the this ar	facility for which the NPDES application oplication:	n is being made. Where	iter drainage e possible, t	e, municipal wastewater systems, etc., which are the location should be noted on a map and inclu	located
at the this ar	facility for which the NPDES application oplication: Description of Waste	n is being made. Where	iter drainage e possible, t	e, municipal wastewater systems, etc., which are the location should be noted on a map and inclu Description of Storage Location	located
at the this ap	facility for which the NPDES application oplication: Description of Waste This information is contained in EPA form	n is being made. Where	attachmen	e, municipal wastewater systems, etc., which are the location should be noted on a map and inclu Description of Storage Location Its from that form.	a located ded with
at the this ap	facility for which the NPDES application oplication: Description of Waste This information is contained in EPA form	2F and the referenced ultimate disposal sites	attachmen	e, municipal wastewater systems, etc., which are the location should be noted on a map and inclu Description of Storage Location	a located ded with
at the this ap	facility for which the NPDES application oplication: Description of Waste This information is contained in EPA form the a description of the location of the	2F and the referenced ultimate disposal sites	attachmen	e, municipal wastewater systems, etc., which are the location should be noted on a map and inclu Description of Storage Location Its from that form.	a located ded with
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at the this ap	facility for which the NPDES application oplication: Description of Waste This information is contained in EPA form de a description of the location of the water treatment system located at the face.	2F and the referenced ultimate disposal sites	attachmen	e, municipal wastewater systems, etc., which are the location should be noted on a map and inclu Description of Storage Location Its from that form. r liquid waste by-products (such as sludges) f	a located ded with
at the this ap	facility for which the NPDES application oplication: Description of Waste This information is contained in EPA form de a description of the location of the water treatment system located at the face.	2F and the referenced ultimate disposal sites	attachmen	e, municipal wastewater systems, etc., which are the location should be noted on a map and inclu Description of Storage Location Its from that form. r liquid waste by-products (such as sludges) f	a located ded with
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Provide waste	facility for which the NPDES application oplication: Description of Waste This information is contained in EPA form de a description of the location of the water treatment system located at the form Description of Waste See Attachment 187-4	2F and the referenced ultimate disposal sites acility. Quantity (lbs/s) e disposed of at an oled waste treatment for	attachmen attachmen s of solid or	e, municipal wastewater systems, etc., which are the location should be noted on a map and inclu Description of Storage Location Its from that form. This is included by the storage Location Disposal Method* This is included by the storage Location Disposal Method* This is included by the storage Location Disposal Method*	rom any
Provide waste *Indicany w	facility for which the NPDES application oplication: Description of Waste This information is contained in EPA form de a description of the location of the water treatment system located at the factorial operation of Waste See Attachment 187-4 cate which wastes identified above arrows are sent to an off-site centralization.	2F and the referenced ultimate disposal sites acility. Quantity (lbs/s) e disposed of at an ored waste treatment for	attachmen attachmen s of solid or day) ff-site treat	e, municipal wastewater systems, etc., which are the location should be noted on a map and inclu Description of Storage Location Its from that form. The liquid waste by-products (such as sludges) for the liquid waste by-products (such as sludges) for the liquid waste by-products (such as sludges) for the liquid waste and which are disposed of on-stiffy the waste and the facility.	located ded with
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Provide waster *Indicany w	facility for which the NPDES application oplication: Description of Waste This information is contained in EPA form de a description of the location of the water treatment system located at the factorial operation of Waste See Attachment 187-4 Cate which wastes identified above arrastes are sent to an off-site centralization of the water treatment is the discharge(s) located within the 10-less, complete items F.1 – F.12:	2F and the referenced ultimate disposal sites acility. Quantity (lbs/s) e disposed of at an orded waste treatment for the contour sites acid to the contour sit sites acid to the contour sites acid to the contour sites acid	attachmen attachmen of sof solid or day) ff-site treat acility, iden	e, municipal wastewater systems, etc., which are the location should be noted on a map and inclu Description of Storage Location Its from that form. The liquid waste by-products (such as sludges) for Disposal Method* Disposal Method* In the limits of Mobile or Baldwin County? Yes Yes	rom any
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3	. Does the project involve dredging and/or filling of a wetland area or water way?	<u>Yes</u>	<u>No</u>
	If Yes, has the Corps of Engineers (COE) permit been received?		
4			
5			
3	If Yes, include a map showing project and discharge location with respect to oyster reefs	L1	لسسا
6			
7	. Does the project involve mitigation of shoreline or coastal area erosion?		
8	. Does the project involve construction on beaches or dune areas?		
9	. Will the project interfere with public access to coastal waters?		
1	0. Does the project lie within the 100-year floodplain?		
1	Does the project involve the registration, sale, use, or application of pesticides?		
1.	Does the project propose or require construction of a new well or to alter an existing groundwater well to pump more than 50 gallons per day (GPD)?		
	If yes, has the applicable permit for groundwater recovery or for groundwater well installation been obtained?		
further	 d, if applicable. It is the applicant's responsibility to demonstrate the social and economic importance of the proinformation is required to make this demonstration, attach additional sheets to the application. iis a new or increased discharge that began after April 3, 1991? 	posed a	ctivity. If
•	s, complete G.2 below. If no, go to Section H.		
	an Anti-Degradation Analysis been previously conducted and submitted to the Department for the new or increatenced in G.1? Yes No	sed disc	harge
335	es, do not complete this section. If no, and the discharge is to a Tier II waterbody as defined in ADEM -6-1012(4), complete G.2.A – G.2.F below and ADEM Forms 311 and 313 (attached). ADEM Form 313 must h alternative considered technically viable.	Admin. be prov	Code r. ided for
Info	rmation required for new or increased discharges to high quality waters:		
Α.	What environmental or public health problem will the discharger be correcting?		
В.	How much will the discharger be increasing employment (at its existing facility or as the result of locating a new	facility)	?
C.	How much reduction in employment will the discharger be avoiding?		
D.	How much additional state or local taxes will the discharger be paying?		
E.	What public service to the community will the discharger be providing?		

ADEM Form 187 10/17 m5 Page 9 of 11

SECTION H - EPA Application Forms

All Applicants must submit EPA permit application forms. More than one application form may be required from a facility depending on the number and types of discharges or outfalls found. The EPA application forms are found on the Department's website at http://www.adem.alabama.gov/programs/water/waterforms.cnt. The EPA application forms must be submitted in duplicate as follows:

- 1. All applicants must submit Form 1.
- 2. Applicants for existing industrial facilities (including manufacturing facilities, commercial facilities, mining activities, and silvicultural activities) which discharge process wastewater must submit Form 2C.
- 3. Applicants for new industrial facilities which propose to discharge process wastewater must submit Form 2D.
- 4. Applicants for new and existing industrial facilities which discharge only non-process wastewater (i.e., non-contact cooling water and/or sanitary wastewater) must submit Form 2E.
- 5. Applicants for new and existing facilities whose discharge is composed entirely of storm water associated with industrial activity must submit Form 2F, unless exempted by § 122.26(c)(1)(ii). If the discharge is composed of storm water and non-storm water, the applicant must also submit Forms 2C, 2D, and/or 2E, as appropriate (in addition to Form 2F).

SECTION I - ENGINEERING REPORT/BMP PLAN REQUIREMENTS

See ADEM 335-6-6-.08(i) & (j)

SECTION J- RECEIVING WATERS

Outfall No.	Receiving Water(s)	303(d) Se	egment?	Included in	TMDL?*
DSN 001	Tennessee River (Wheeler Lake)	Yes	□No	☐ Yes	■No
		☐ Yes	□No	☐ Yes	□No
		☐ Yes	□No	☐ Yes	□No
		☐ Yes	□No	☐ Yes	□No
		☐ Yes	□No	☐ Yes	□No

^{*}If a TMDL Compliance Schedule is requested, the following should be attached as supporting documentation:

- (1) Justification for the requested Compliance Schedule (e.g. time for design and installation of control equipment, etc.):
- (2) Monitoring results for the pollutant(s) of concern which have not previously been submitted to the Department (sample collection dates, analytical results (mass and concentration), methods utilized, MDL/ML, etc. should be submitted as available);
- (3) Requested interim limitations, if applicable;
- (4) Date of final compliance with the TMDL limitations; and,
- (5) Any other additional information available to support requested compliance schedule.

SECTION K - APPLICATION CERTIFICATION

The information contained in this form must be certified by a responsible official as defined in ADEM Administrative Code r. 335-6-6-.09 "signatories to permit applications and reports" (see below).

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisopphent for lawwing violations."

Signature of Responsible Official: Will Name and Title: Michelle Howell, Sit	e Manager	Date Signed: 08/28/2019
If the Responsible Official signing this applicate	ion is <u>not</u> identified in Section A.7, provide the	e following information:
Mailing Address:		
City:	State:	Zip:
Phone Number:	Email Address:	

335-6-6-.09 SIGNATORIES TO PERMIT APPLICATIONS AND REPORTS.

- (1) The application for an NPDES permit shall be signed by a responsible official, as indicated below:
 - (a) In the case of a corporation, by a principal executive officer of at least the level of vice president, or a manager assigned or delegated in accordance with corporate procedures, with such delegation submitted in writing if required by the Department, who is responsible for manufacturing, production, or operating facilities and is authorized to make management decisions which govern the operation of the regulated facility;
 - (b) In the case of a partnership, by a general partner;
 - (c) In the case of a sole proprietorship, by the proprietor; or
 - (d) In the case of a municipal, state, federal, or other public entity, by either a principal executive officer, or ranking elected official.

Attachment 187-1: Business Activity

Response to ADEM Form 187 Section B and Form 1 Section XII

The ADEM and federal NPDES forms that reference this attachment request information on the Standard Industrial Classification (SIC) codes for these manufacturing activities. The U.S. government established SIC codes, which were subsequently replaced by the North American Industrial Classification System (NAICS) codes, for its own purposes of gathering statistical data. The codes are used to classify establishments by their primary economic activity, and thus data can be compared for describing various industries. The codes themselves may be technically ambiguous since final products can be reasonably reported under various categories. The conversion from SIC to NAICS codes further complicated these descriptions since multiple cross-references may be applied. Finally, the determination of the primary activity may be difficult for those sites that manufacture many different products. Discussion on applicable SIC/NAICS codes for each manufacturing activity are provided in following sections. All manufacturing activities wastewaters combine and are treated in the Site Wastewater Treatment facility.

A. Chemicals Manufacturing

1. Facility Description

The chemicals manufactured include a wide variety of semi-finished chemical products in flexible batch processing equipment. These products include adhesives, coatings, and other specialty chemicals. Many of these products are utilized at other 3M facilities to manufacture finished products. The process equipment typically consists of a group of reactors which can be reconfigured for each product. These processes use a wide range of inorganic and organic feedstocks.

The primary NAICS code that has been used to describe the primary manufacturing activities is 325520 (Adhesive Manufacturing). The SIC equivalent is 2891 (Adhesives and Scalants). This designation was determined by reviewing the pounds of products produced in the past year. Over 60% of the chemicals manufactured in 2017 were classified as adhesives.

2. Review of Effluent Guidelines

Wastewaters from these operations are produced from vacuum system operation, equipment cleaning, and various other processes.

In reviewing the potential applicability of categorical treatment standards to the chemical manufacturing activities based on the primary SIC code (2891), 3M

does not believe that any of the effluent guidelines are applicable to the Chemical Manufacturing operations at the facility.

SIC codes applicable to 40 CFR 414, Organic Chemicals, Plastics and Synthetic Fibers (OCPSF), include: 2821, 2823, 2824, 2865, and 2869. 3M Decatur does not claim any of these SIC codes for its Chemicals Manufacturing facility. Therefore, the provisions of 414 do not apply.

Also, the Chemical Manufacturing activities do not manufacture Soaps and Detergents (Part 417), Pharmaceuticals (Part 439), Oil-based paints (Part 446) or Oil-based Inks (Part 447), Rubber Products (Part 428) or Pesticides (Part 445), and the site is not a Centralized Wastewater Treatment Facility (Part 437).

B. Elastomers Manufacturing

1. Facility Description

The elastomers manufacturing process produces fluoroelastomers using semi-batch reactions. Gaseous fluoromonomers are metered into a reactor containing hot water and polymerization initiators. When the polymerization is complete, the latex containing the fluoroelastomer is transferred for further processing. The fluoroelastomer is separated from the water in a "coagulation" operation. The coagulated solid elastomer material is washed with water to remove the remaining reaction ingredients and byproducts. Finally, the wet elastomer is dried. The "raw gum" elastomer may be mixed with cross-linking agents and other additives and packaged.

These products are reported under NAICS and SIC codes 325212 (Synthetic Rubber Manufacturing) and 2822 (Synthetic Rubber), respectively.

2. Review of Categorical Treatment Standards

Elastomers manufactures products that are latex rubbers; therefore, this process is subject to the effluent guidelines outlined in 40 CFR Part 428 - Rubber Manufacturing Point Source Category, Subpart D - Latex Rubber Subcategory.

C. Plastics Manufacturing

1. Facility Description

There are two separate activities included in plastics manufacturing operations.

Vinylidene fluoride (VDF) monomer is produced by the dehydrohalogenation of l-chloro-1,1 difluoroethane (HCFC-142b) in a pyrolysis furnace. The compounds exiting this process include VDF, hydrochloric acid (HCl), and various reaction byproducts. VDF is isolated in a scrubbing process which removes the HCl. VDF

is transferred to storage tanks. Light and heavy residues from the production process are stored in tanks prior to being transported off-site for disposal.

Polyvinylidene fluoride (PVDF) is a solid resin produced from the polymerization of VDF with various proprietary co-monomers. PVDF is produced in a batch polymerization process involving the introduction of VDF and co-monomers with other additives introduced into a heated reactor. Other reactants and/or catalysts are added as necessary to complete the process. PVDF manufacturing operations also include a compounding process that utilizes cooling water as a part of a pelletizing operation. These materials are transferred off-site.

The HCl from the scrubbing process and caustic solutions that are generated during the above described activities may be treated in 3M's wastewater treatment plant. Alternatively, these by-product streams may be transferred to an on-site treatment facility, currently operated by a third-party vendor, that are collocated with 3M's VDF/PVDF manufacturing operations. For the most part, HCl from these operations is transferred to off-site locations for a variety of industrial uses.

VDF monomer production is classified under the NAICS and SIC codes 325998 (All Other Miscellaneous Chemical Product and Preparation Manufacturing) and 2869 (Industrial Organic Chemicals, Not elsewhere classified), respectively. PVDF polymer manufacturing operations are classified under the NAICS and SIC codes 325211 (Plastics Material and Resin Manufacturing) and 2821 (Plastic Materials and Resins), respectively.

2. Review of Effluent Guidelines

Both 2821 and 2869 are listed as applicable SIC codes that are covered under 40 CFR Part 414 - Organic Chemicals, Plastics, and Synthetic Fibers (OCPSF). VDF production is subject to Subpart H - Specialty Organic Chemicals, while PVDF production is subject to Subpart D - Thermoplastic Resins.

The wastewaters of these operations are discharged through internal outfall DSN 001C.

D. Film Manufacturing

1. Facility Description

This facility manufactures a broad range of specialty films. Most of these films are manufactured from polyester resin. The primary products manufactured include multi-layer optical film and extrusion coated film. Some of these films may be used at other 3M locations to produce a variety of finished products.

Resins that are both purchased and manufactured onsite, as well as other additives, are conveyed to extruders which produce a plastics sheet that is further

processed to produce specific thicknesses and other performance characteristics. Some of the films may be coated with various solutions depending upon the specific product end use. Finally, various converting operations may be used to produce desired film widths. Many of the production processes at the plant incorporate recycling operations that are intended to recover and reuse film that is lost during the manufacturing processes.

The primary activity of these operations has been described under NAICS code 326113 (Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing). The equivalent SIC code for this manufacturing is 3081 (Unsupported Plastics Film and Sheet).

2. Review of Effluent Guidelines

40 CFR 463, Plastics Molding and Forming, includes pretreatment regulations for processes that produce wastewater from plastics molding forming processes including extrusion, molding, coating and laminating, thermoforming, calendaring, casting, foaming, cleaning, and finishing.

The film manufacturing operations at 3M Decatur do not produce wastewater that contacts resin/film products during shaping and do not discharge wastewater generated by the cleaning of equipment used to shape the film. The manufacturing operations also do not discharge wastewater from the film coating process. Only wastewater that does not directly contact the film or shaping equipment is discharged. Therefore, part 40 CFR Part 463 does not apply to the facility.

E. Resin Manufacturing

1. Facility Description

Resin manufacturing operations produce a majority of the polyester resin utilized in the onsite film manufacturing process. The resin is manufactured in chemical processing equipment with the primary raw materials being ethylene glycol and dimethylterephthate or terephthalic acid. The manufacturing processes which are employed to produce the different resin products are very similar. Catalysts and other additives and resins may also be added to the process depending on the specific resin that is being manufactured. The molten plastic material is pelletized and cooled in a water bath before being conveyed to storage silos.

These operations would be classified under SIC code 2821 (Plastics Materials and Resins). The corresponding NAICS Code is 325211 (Plastics Material and Resin Manufacturing).

2. Review of Effluent Guidelines

Wastewaters that are generated in these operations include wastewater from air pollution control scrubbers, vacuum systems, and area clean-up. Water is also utilized in a closed loop piece of equipment to cool the molten polyester. Wastewater is generated when the system is drained for cleaning purposes.

Approximately 60% of the resin produced at the facility is used onsite in film manufacturing. Because of this, these resin manufacturing activities are subject to 40 CFR Part 463 - Plastics Molding and Forming, Subpart A - Contact Cooling and Heating.

Attachment 187-2: Wastewater Discharge Information

Response to ADEM Form 187 Section C - 2a & 2b

Process/Facility Location	Regulated Process Activity	Applicable Category	Applicable Subpart	Type of Discharge		(lbs/day), Highest Flow Year of Last 5 (gal/day), etc. Highest (gal/day), (lbs/day), etc. Monthly Average
Elastomers Manufacturing	Latex Rubber Production	428	a	Batch		
Plastics Manufacturing Production	VDF and PVDF Production	414	H,D	VDF - Continuous PVDF - Batch	100,000 gal/day	160,000 gal/day
Resin Manufacturing	Polyester Resin Production	463	A	Batch	125,000 gal/day	150,000 gal/day

Response to ADEM Form 187 Section C - 2c & 2d

Non Catononia	Last 12 Months	Highest Flow Year
Brocer December	(gal/day) Highest	of Last 5 (gal/day)
בוסרבא הבארווחווו	Monthly Average	Monthly Average
Film Manufacturing	375,000	650,000
Chemicals	000 000	200 000
Manufacturing	300,000	1,100,000
Utilities	140,000	200,000
Sanitary	20,000	20,000
Groundwater	30,000	30,000
Noncontact Cooling	4 300 000	200
Water Usage	4,300,000	חטח'חחכ'כ

Values listed in this section are general estimates

Attachment 187-3: Biocides and Corrosion Inhibitors
Response to ADEM Form 187 Section C.6

Trade Name	Chemical composition	Quantity Used (lbs/day)	Frequency of Use	Aquatic Toxicity Values (species used in WET testing)	Proposed Discharge Concentations [mg/l]**	Comments
	80% BROMO-CHLORO, 5.5-DIMETHYL		Γ	Fathead minnow: 2.43 mg/L	800	Active ingredient will hydrolize to
Spectrus OX103	HYDANTOIN	۶	continuons	daphnia magna: 0.49 mg/l*	60.0	biodegradable compounds.
	5% magnesium nitrate			Fathead minnow: 6.6 mg/t		Some of the active ingredients are readily biodegradable and should
Spectrus NX1106	5% isothiazolin	2	tx/week	Daphnia magna: 2.9 mg/l*	11.0	be reduced in wastewater treatment.
110		C	Sucharitory	Fathead minnow: 5.6 mg/L	Not applicable	The active ingredient will be totally consumed either during
nieacu	Sodium nypochionie	ì		daphnia magna: 1.6 mg/l*		use or during wastewater transmission and treatment
	15% chlorotolytriazole			Fathead minnow: 135 mg/L		
Inhibitor AZ8104	10% dichlorotolytriazole	10	continuous	daphnia magna: 217 mg/l*	1.00	Some biodegradation of active ingredient is possible.
	2.5% NaOH			ceriodaphnia: 124 mg/l*		
				Fathead minnow: 1000 mg/t	V N	Maurelined to not accum call
Flogard MS6214	potassium hydroxide	1/	continuous	daphnia magna: 1000 mg/l*		
	2.5% chlorotolytriazole			Fathead minnow: 250 mg/t	50	Some pertralitation
Gengard GN8118	2.5% NaOH	8	continuons	daphnia magna: 1569 mg/i*	20.1	
	7% acrylate terpolymer	7.0		Fathead minnow: 502 mg/L	73.0	Some biodegradation expected in
Gengard GN8115	1% chlortriazole	as	continuous	daphnia magna: 2549 mg/l*	ò	activated sludge system
	30% sodium nitrate	Ç	30,000	Fathead minnow: 1072 mg/L	ç	Boric acid will be neutralized
Corrshield N 1402	5% boric acid	Q.	7×/ year	daphnia magna: 38 mg/l*		during wastewater treatment.
		. 30	44/1000	Fathead minnow: 2730 mg/L	50.0	
Corrshield MID4100	לטא אונו פנפ	6.7	44) Year	daphnia magna: 5997 mg/i*		
	dimethylaminopropylamine (27%)	,	1	Fathead minnow: 10.3 mg/L	003	Significant biodegradation of the these materials is expected in the
Steamate NF / /U	3-methoxypropylamine (15%)	7	Sport	daphnia magna: 3.3 mg/l*		site activated sludge system

^{* 48-}hour medium tolerance value

neutralized to salts in the wastewater treatment system. These may be listed as NA in this column. The active ingredients for most of the remaining compounds will be eliminated due a variety of mechanisms including hydrolysis and biodegradation. However, in determining the estimated effluent concentrations it was assumed that no attenuation would occur. In all cases the estimated (unattenuated) effluent concentrations were below the relevant aquatic toxicity values. 3M can provide more specific estimates of the actual effluent concentrations ** Discharges of wastewaters that contain these materials are sent to the site's wastewater treatment system. Many of the materials on this list are acids or bases that will be at ADEM's request.

Attachment 187-4: Wastewater Treatment Sludges and Wastes

Response to ADEM Form 187 Section E

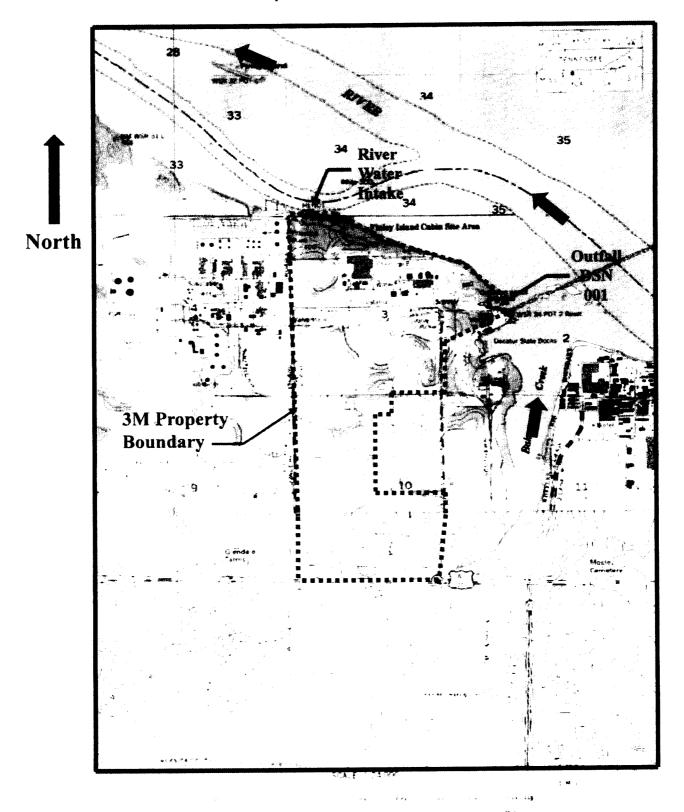
Description of Waste	Quantity (lbs/day)	Disposal Method
Dewatered Wastewater Sludge	8200 lb/day	Off-site Landfill
Steam Stripper Condensate	225 lb/day	Off-site Incineration
Bar Screening waste and other misc. solids	<20 lbs/day	Off-site Landfill
Waste Granular Activated Carbon	55 lbs/day	Regeneration by vendor
Ion Exchange Extractant	<30 lbs/day	Off-site Incineration

	FROM THE FRONT				
VII. SIC COD	ES (4-digit, in order of priority)				
5 1 1	A, FIRST (specify) Unsupported Plastics Film and	Sheet	<u> </u>	B. SEC pecify) Synthetic Rubber	OND
7 3081			7 2822 (sp	ec(),//-/	
15 16 - 1	C. THIRD		15 16 - 19	D. 7011	
7 2891	(specify)Adhesives and Chemical Prepara	tions	5 1 1/50	D. FOU pecify)Plastics Materials of	
1.1			1/5821	.,,	
VIII. OPERAT	OR INFORMATION		15 15 - 19		
		A. NAME			B. Is the name listed in Item
8 3M Co			1 1 1 1		VIII-A also the owner?
15 16				·	ØYES □ NO
	C. STATUS OF OPERATOR (Enter	the appropriate letter into the	answer have if "Oth	er " specify)	D. PHONE (area code & no.)
F = FEDERA	u	6	pecify) NA	,	L. PRONE (WED CODE & NO.)
S = STATE	M = PUBLIC (other than C = OTHER (specify)	federal or state) P			A (256) 552-6010
P = PRIVAT	E O THE COPPER	56			15 0 18 19 - 21 22 26
	E. STREET OR P	.O. BÓX			
РО Вох	2206				
	22.00				
26				56	
	F. CITY OR TO	<u>wn</u> 1 1 1 1 1 1 1 1 1		G. STATE H. ZIP CODE	
B Decat	ur	, ,	` ' '	AL 35609	is the facility located on Indian lands? If YES INO
15 16			46	41 42 47 . 91	-1º 10
X. EXISTING	ENVIRONMENTAL PERMITS			ON MAR WAR TOWN A TOWN A TOWN	
Α.	NPDES (Discharges to Surface Water)	D. PSD (Air Er	nissions from Proposi	ed Sources)	
C 1 7 1 7 7	[
1 3 IN		9 P			
15 18 17 18	INC N. J	30 15 16 17 18		30	
GTI I	UIC (Underground Injection of Fluids)			E. OTHER (specify)	44.
9 U NA	1	712-00	09''''	(specify)	Title V Operating Permit
15 16 17 18		30 15 16 17 18		30	
CTII	C. RCRA (Hazardous Wastes)			E. OTHER (specify)	
	D004023164	C 7 1	1 1 1 1	(specify)	the state of the s
15 16 17 18		9 18 16 17 18			
XI. MAP		40 10 10 17 18		30	
Attach to this	application a topographic map of the area	extending to at least one	mile hevond omne	rty houndaries. The man or	the state of the state of
mjects noids :	anderground, include all springs, rivers, and	other surface water bodies	in the map area. Se	e instructions for precise rea	quirements. See Figure 1-1
	OF BUSINESS (provide a brief description)				
See Attach	nment 187-1				
					:
XIII. CERTIFIC	ATION (see instructions)				
myany or mos	penalty of law that I have personally examine persons immediately responsible for obtain	ning the information conta	ned in the anolicati	ion I haliava that the inform	all attachments and that, based on my lation is true, accurate, and complete. I
ani aware ura	trere are significant penalties for submitting	raise information, including	the possibility of fli	ne and imprisonment	
A. NAME & OF	FFICIAL TITLE (type or print)	B. SIGNATURE	100	// 11/1	C. DATE SIGNED
Michelle	Howell	191/11	$M \setminus M$	STONE !	1/8/28/2011
***************************************		1/1/4	14 1	1 None	100/20/2018
	OR OFFICIAL USE ONLY				
<u> </u>					100
C					
15 16					

EPA Form 3510-1 (8-90)

Figure 1-1: Topographic Map

Response to Form 1 Section XI



AL0000205

Form Approved. OMB No. 2040-0086. Approval expires 3-31-98.

Please print or type in the unshaded areas only.

FORM 2C NPDES U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS Consolidated Permits Program

I. OUTFAI	LL LOCATION	Į.								
For each	outfall, list the	latitude and	longitude of its	s location to	the nearest 1	5 seconds an	d the name of	the receiving water.		
	LL NUMBER		B. LATITUDE			C. LONGITUE		D. RECEIVING WATE	(R (numu)	
ļ	(list)	1. DEG.	2, MIN.	3. SEC.	1, DEG.	2. MIN.	3. SEC.	<u> </u>		
DSN 00	1	34.00	38.00	29.00	-87.00	2.00	7.50	Tennessee River	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
001A,	001B,							(001A, 001B, and 001C a	re all	
and 00	1C							contributing outfalls;	OSN 001 :	is the
								combined discharge of a	ll outfal	lls)
II. FLOWS	S, SOURCES	OF POLLUTI	ON, AND TRE	ATMENT TO	ECHNOLOGI	ES				
labeled treatm source	d to corresport ent units, and as of water and	nd to the more outfalls, if a d any collection	e detailed des water balance on or treatmer	criptions in It cannot be o nt measures.	tem B. Constr determined (e See F	ruct a water b e.g., for certain igure 20	alance on the in mining activ	perations contributing wastewater to the e line drawing by showing average flows be ities), provide a pictorial description of the t, including process wastewater, sanitary	nature and ar	s, operations, mount of any
and st	form water ru	noff; (2) The	average flow	contributed	by each ope	eration: and	(3) The treatr	ment received by the wastewater. Contin	ue on addition	nal sheets if
1, OUT-	<u> </u>	2. OPER	RATION(S) CO	NTRIBUTIN	G FLOW			3. TREATMENT		
FALL NO. (list)		OPERATION	d (liet)	b.	AVERAGE F			a. DESCRIPTION		DES FROM E 2C-1
			r this table	-					†	
	narrative d	estription :	of treatment						1	
	and treatme	nt design in	nformation						1	
	<u> </u>	***************************************								<u> </u>
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OFFICIAL USE ONLY (effluent guidelines sub-categories)

CONTINUE ON REVERSE

	ROM THE FRONT								
C. Except for st			a discharges described	in Items II-A or B in	termittent or sea	isonal?			
L	YES (complete the	foilowing table)		NO (go to Se	ction III)				
			3.	FREQUENCY			4. FLOW		T
		2. OPERATION(s)	a. DAYS F		a. FLOW RA	TE (in mgd)	B. TOTAL (specify w		
1, OUTFALL	co	ONTRIBUTING FLOW	(specif)	PER YEAR	1. LONG TERM	2. MAXIMUM	1. LONG TERM	2. MAXIMUM	C. DURATION (in days)
NUMBER (list)		(list)	average	(specify average)	AVERAGE	DAILY	AVERAGE	DAILY	1
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III. PRODUCTIO						6 Th 6			
- Taran			EPA under Section 304			ur racility?			
	YES (complete Iter			NO (go to Se					
			expressed in terms of			eration)?			
	YES (complete Iter		which represents an ac	NO (go to Se		araduction ev	pressed in the t	erms and unit	ts used in the
applicable e	ered 'yes to item iffluent guideline, a	nd indicate the affect	which represents an ac id outfalls.	auai measurement	or your lever of	production, cx	pressee in the t		
			AGE DAILY PRODUCT	ION			2. AFF	ECTED OUT	FALLS
a. QUANTITY	PER DAY b. U	INITS OF MEASURE	c. OPER	ATION, PRODUCT	, MATERIAL, E	rc.		st outfall numbe	
				(specify)				1. (IX O.O.)	
,			Elastomers Manu	rfacturing			DSN CCIA.	DSN UUI	
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ļ									
IV. IMPROVEM		. Fortage State on L	ocal authority to meet	anu implamentatio	n echedule for l	he constructio	n ungrading o	c operations	of wastewater
ironiniami a	miliament or proptir	one or any other anvir	anmental amorame who	ch may affect the d	ischarnes descri	bed in this apr	Mication ! Inis in	iciudes, but is	not limited to.
permit cond	litions, administrati	ve or enforcement ord	ers, enforcement comp	liance schedule lett	ers, stipulations	court orders,	and grant or loa	n conditions.	
	YES (complete the	following table)	<u> </u>	NO (go to Ite	em IV-B)				
	TION OF CONDIT	ION, 2. AFFE	TED OUTFALLS	3 BRIE	DESCRIPTION	OF PROJEC	T 4. F	INAL COMPL	JANCE DATE
AGRE	EMENT, ETC.	a. NO. b.	SOURCE OF DISCHARGE	4				REQUIRED 1	. PROJECTED
							1		
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							-		
							1		
B. OPTIONAL	: You may attach	additional sheets de	scribing any additional	water pollution or	ontrol programs	(or other env	ironmental proje	ects which m	ay affect you
discharges)) you now have un-	derway or which you	plan. Indicate whether	each program is no	w underway or p	lanned, and in	dicate your actu	uai or planned	schedules to
construction	•	COURTION OF ARR	TIONAL CONTROL PR	OGRAMS IS ATTA	CHED				

EPA I.D. NUMBER (copy from Item 1 of Form 1) ALD000205

CONTINUED FROM PAGE 2 V. INTAKE AND EFFLUENT CHARACTERISTICS A. B. & C. See instructions before proceeding — Complete one set of tables for each outfall — Annotate the outfall number in the space provided. NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9. D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession. 1. POLLUTANT 1. POLLUTANT 2. SOURCE 2. SOURCE See Attachment 20-3 The list of constituents is based on a review of raw material usage at the plant which could result in the presence of these materials in regulated outfails. VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct? YES (list all such pollutants below) NO (go to Item VI-B) See Attachment 2C-4 for a summary of quarterly NPDES permit testing for perfluoroalkyl substances for outfall DSN 001 (first quarter 2015 through first quarter 2018) and a description of process wastewater that may contain perfluoroalkyl and polytluoroalkyl substances

PAGE 3 of 4 CONTINUE ON REVERSE EPA Form 3510-2C (8-90)

VII. BIOLOGICAL TOXICITY TESTING D	DATA		
Do you have any knowledge or reason to	believe that any biological test for acute or chron	ic toxicity has been made on any of you	r discharges or on a receiving water in
relation to your discharge within the last : VES (identify the text(s) as	3 yaars? id describe their purposes below)	NO (go ta Section VII.	n
	cicity testing is currently condu		······································
WILL CONTRACT ANALYSIS INFORMAT			
VIII. CONTRACT ANALYSIS INFORMAT Were any of the analyses reported in Item	ION Note: The performed by a contract laboratory or consulting the performed by a contract laboratory or consulting the performed by a contract laboratory or consulting the performed by a contract laboratory or consulting the performed by a contract laboratory or consulting the performed by a contract laboratory or consulting the performed by a contract laboratory or consulting the performed by a contract laboratory or consulting the performed by a contract laboratory or consulting the performed by a contract laboratory or consulting the performed by a contract laboratory or consulting the performance of the perf	ng firm?	
Were any of the analyses reported in Item YES (Its the name, address	n V performed by a contract laboratory or consulting.		
Were any of the analyses reported in Item	n V performed by a contract laboratory or consulting.	NO (go to Section LX) C. TELEPHONE	D. POLLUTANTS ANALYZED
Were any of the analyses reported in Item YES (list the name, address each such laboratory o	n V performed by a contract laboratory or consulting and telephone number of, and pollutants analyzed by, r firm below)	NO (go to Section LX)	D. POLLUTANTS ANALYZED (list) All NPDES Form 2C parameters
Were any of the analyses reported in item YES (list the name, address each such laboratory of A. NAME	n V performed by a contract laboratory or consulting and telephone number of, and pollutants analyzed by, or firm below) B. ADDRESS 2220 Beltline Road	NO (go to Section LX) C. TELEPHONE (area code & no.)	(list) All NPDES Form 2C
Were any of the analyses reported in item YES (list the name, address each such laboratory of the same) A. NAME Energoly (performs sampling) Page Analytical (sample	n V performed by a contract laboratory or consulting and telephone number of, and pollutants analyzed by a firm below) B. ADDRESS 2220 Beltline Road Decatur, AL 35601 1800 Elm Street SE	NO (go to Section LX) C. TELEPHÔNE (area code & no.) (256) 350-0846	(list) All NPDES Form 2C parameters All NPDES Form 2C
Were any of the analyses reported in item YES (list the name, address each such laboratory of the same) A. NAME Energoly (performs sampling) Page Analytical (sample	n V performed by a contract laboratory or consulting and telephone number of, and pollutants analyzed by a firm below) B. ADDRESS 2220 Beltline Road Decatur, AL 35601 1800 Elm Street SE	NO (go to Section LX) C. TELEPHÔNE (area code & no.) (256) 350-0846	(list) All NPDES Form 2C parameters All NPDES Form 2C
Were any of the analyses reported in item YES (list the name, address each such laboratory of the same) A. NAME Energoly (performs sampling) Page Analytical (sample	n V performed by a contract laboratory or consulting and telephone number of, and pollutants analyzed by a firm below) B. ADDRESS 2220 Beltline Road Decatur, AL 35601 1800 Elm Street SE	NO (go to Section LX) C. TELEPHÔNE (area code & no.) (256) 350-0846	(list) All NPDES Form 2C parameters All NPDES Form 2C
Were any of the analyses reported in item YES (list the name, address each such laboratory of the same) A. NAME Energoly (performs sampling) Page Analytical (sample	n V performed by a contract laboratory or consulting and telephone number of, and pollutants analyzed by a firm below) B. ADDRESS 2220 Beltline Road Decatur, AL 35601 1800 Elm Street SE	NO (go to Section LX) C. TELEPHÔNE (area code & no.) (256) 350-0846	(list) All NPDES Form 2C parameters All NPDES Form 2C
Were any of the analyses reported in item YES (list the name, address each such laboratory of the same) A. NAME Energoly (performs sampling) Page Analytical (sample	n V performed by a contract laboratory or consulting and telephone number of, and pollutants analyzed by a firm below) B. ADDRESS 2220 Beltline Road Decatur, AL 35601 1800 Elm Street SE	NO (go to Section LX) C. TELEPHÔNE (area code & no.) (256) 350-0846	(list) All NPDES Form 2C parameters All NPDES Form 2C
Were any of the analyses reported in item YES (list the name, address each such laboratory of the such laborato	n V performed by a contract laboratory or consulting and telephone number of, and pollutants analyzed by a firm below) B. ADDRESS 2220 Beltline Road Decatur, AL 35601 1800 Elm Street SE	NO (go to Section LX) C. TELEPHÔNE (area code & no.) (256) 350-0846	(list) All NPDES Form 2C parameters All NPDES Form 2C

IX.	CE	RT	IF	ICA	TION

I certify under penelty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penelties for submitting felse information, including the possibility of fine and imprisonment for knowing violations.

	Total Control of the
A. NAME & OFFICIAL TITLE (type or print)	B. PHONE NO. (area code & no.)
Michelle Howell	(256) 552-6300
C. SIGNATURE	D. DATE SIGNED 08/28/2018

EPA I.D. NUMBER (copy from Item 1 of Form 1)

b. NO. OF ANALYSES 001B, and 001C are internal monitoring streams only. DSN 001 is the combined discharge See Attachment 2C-3. Only results for DSN 001 are included in this application - 001A, OUTFALL NO. CONCENTRATION (2) MASS 4. INTAKE a. LONG TERM AVERAGE VALUE of all process outfalls and the point of surface discharge. b. MASS 3. UNITS (specify if blank) a. CONCENTRATION PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details. d. NO. OF ANALYSES (2) MASS e. LONG TERM AVRG. VALUE (if available) AL0000205 (1) CONCENTRATION PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS. 2. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C) CONCENTRATION CONCENTRATION (2) MASS a. MAXIMUM DAILY VALUE c. Total Organic Carbon a. Biochemical Oxygen b. Chemical OxygenDemand (COD) 1. POLLUTANT d. Total Suspended Solids (735) e. Ammonia (us N) g. Temperature Demand (BOD)

Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited on a filter initiations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfalf. See the instructions for additional details and requirements. PART B -

h. Temperature

(winter)

f. Flow

COL

(summer)

Hd .

	2. MARK "X"	K 'X'			3.	3. EFFLUENT				4. UNITS	rs	5. INTA	5. INTAKE (optional)	
1. POLLUTANT					b. MAXIMUM 30 E	DAY VALUE	MAXIMUM 30 DAY VALUE C. LONG TERM AVRG. VALUE	RG. VALUE				a. LONG TERM AVERAGE	VERAGE	
AND	rò	۵	a. MAXIMUM DAILY VALUE	Y VALUE	(if available)	(a)	(if available)	ile)				VALUE		
CAS NO. (if available)	BELIEVED BELIEVED PRESENT ABSENT		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCENT	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)														
b. Chlorine. Total Residual														
c. Color						0	See Attachment 2013	,,c	(7					
d. Fecal Coliform						ָט מ	שררמכזוווו	G11 C & C	1					,
e. Fluoride (16984-48-8)														
f. Nitrate-Nitrite (as N)	-													

EPA Form 3510-2C (8-90)

PAGE V-1

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s. Iron, Total (7439-89-6) I. Magnesium, Total II. Molybdenum, Total (7439-98-7)

v. Manganese, Total (7439-96-5)

w. Tin. Total (7440-31-5)

x, Titanium, Total (7440-32-6)

p. Barium, Total (7440-39-3) q. Boron, Total (7440-42-8)

r. Cobalt, Total (7440-48-4)

See Attachment 2C-3

b. NO. OF ANALYSES

b. MASS CONCENTRATION (2) MASS

a. CONCEN-TRATION

d. NO. OF ANALYSES

(2) MASS

(1) CONCENTRATION

BELIEVED BELIEVED (1) a. MAXIMUM DAILY VALUE (1/available)
RRESENT ABSENT CONCENTRATION (2) MASS CONCENTRATION (2) MASS

c. LONG TERM AVRG. VALUE (if available)

3. EFFLUENT
b. MAXIMUM 30 DAY VALUE
(if available)

ITEM V-B CONTINUED FROM FRONT

2 MARK "X"

1. POLLUTANT
AND
CAS NO.
(t/ available)

g. Nitrogen. Total Organic (us

(4) Radium 226, Total

k. Sulfate (as SO₄) (14808-79-8)

1. Suffide (ατ S) m. Suffite (αs SO₁) (14265-45-3) n. Surfactants o. Aluminum, Total (7429-80-5)

(1) Alpha, Total

(2) Beta, Total

(3) Radium. Total

i. Phosphorus (as P). Total (7723-14-0) J. Radioactivity

h. Oil and Grease

5. INTAKE (optional)
a. LONG TERM
AVERAGE VALUE

4. UNITS

OUTFALL NUMBER DSN 001 EPA I.D. NUMBER (copy from Item 1 of Form 1) AL0000205

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GCMS fractions you must test for. Mark "X" in column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GCMS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you mark column 2b for any pollutant, or "Completed" or "Complete

10000		a regeneration.											
	.4	2. MARK "X"			3,	3. EFFLUENT				4. UNITS		5. INTAKE (optional)	tat)
1. POLLUTANT AND	rci	۵		a. MAXIMUM DAILY VALUE	b. MAXIMUM 30 DAY VALUE (if available)	DAY VALUE	c. LONG TERM AVRG. VALUE (if available)	AVRG. ilable)				a. LONG TERM AVERAGE VALUE	
CAS NUMBER (if available)	RED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION (2) MASS	CONCENT	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION b. I	b. MASS	(1) (2) MASS	D. NO. OF ANAL YSES
METALS, CYANIDE, AND TOTAL PHENOLS	E, AND TOT	TAL PHENOLS											
1M. Antimony, Total (7440-36-0)			•							•			
2M. Arsenic, Total (7440-38-2)													
3M. Beryllium, Total (7440-41-7)	•												
4M. Cadmium, Total (7440-43-9)													
5M. Chromium, Total (7440-47-3)													
6M. Copper. Total (7440-50-8)													
7M. Lead, Total (7439-92-1)	···········												
8M. Mercury, Total (7439-97-6)	· · · · · · · · · · · · · · · · · · ·												
9M. Nickel, Total (7440-02-0)						See At	Attachment 2C-3	2C-3	~				
10M. Selenium, Total (7782-49-2)													
11M. Silver. Total (7440-22-4)													
12M. Thallium, Total (7440-28-0)													
13M. Zinc, Total (7440-66-6)													
14M. Cyanide. Total (57-12-5)													
15M. Phenols, Total	T												

EPA Form 3510-2C (8-90)

2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)

DIOXIN

PAGE V-3

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT	THE FROM	ONT AMARK *YT	—	AND THE PROPERTY OF THE PROPER	3 FFFI LIFINT			4. UNITS	5. INTAKE (o;nional)	mal)
1. POLLUTANT		V WOW			b. MAXIMUM 30 DAY VALUE	C. LONG TERM AVRG.			a. LONG TERM	
	IESTING BELIEVED REGUIRED PRESENT	BELIEVED PRESENT	BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION (2) MASS		VALUE (if available) (1) CONCENTRATION (2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION b. MASS	S CONCENTRATION (2) MASS	b. NO. OF S. ANALYSES
GC/MS FRACTION - VOLATILE COMPOUNDS	- VOLATILI	E COMPOU		. 1						
1V. Accrolein (107-02-8)										
2V. Aaryfonitrie (107-13-1)										
3V. Benzene (71-43-2)										
4V. Bis (Chloromethy) Ether (542-88-1)										
5V. Bromoform (75-25-2)										
6V. Carbon Tetrachloride (56-23-5)										
7V. Chlorobenzene (108-90-7)										
8V. Chlorodi- bromomethane	**********									
9V. Chloroethane (75-00-3)										
10V. 2-Chloro- ethylvinyl Ether	organista esta esta esta esta esta esta esta esta									
11V. Chloroform (67-66-3)					See At	Attachment 2C-	φ.			
12V. Dichloro-										
(75-27-4)										
diffuoromethane (75-71-8)										
14V. 1.1-Dichloro- ethane (75-34-3)										
15V. 1,2-Dichloro- ethane (107-06-2)	,,,,,,,,,,,,									
16V. 1,1-Dichloro- ethylene (75-35-4)										
17V. 1,2-Dichloro- propane (78-87-5)										
18V. 1,3-Dichloro- propylene (542-75-6)	,									
19V. Ethylbenzene (100-41-4)	T									
20V. Methyl Bromide (74-83-9)	r									
21V. Methyl Chloride (74-87-3)	••••									
EPA Form 3510-2C (8-90)	(8-90)				PAG	PAGE V-4			CONTINUE	CONTINUE ON PAGE V-5

EPA Form 3510-2C (8-90)

CONTINUED FROM PAGE V-4

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TAATI	; 	Z. MAKK A		3. EFFLUENI	L		4. UNITS	13	5. INTAI	5. INTAKE (optional)	
	πű	Ġ	a. MAXIMUM DAILY VALUE	b. MAXIMUM 30 DAY VALUE (if available)	c. LONG TERM AVRG. VALUE (if available)				a. LONG TERM AVERAGE VALUE		
- 1	TESTING REQUIRED	BELIEVED BELIEVED PRESENT ABSENT	VED (1) ENT CONCENTRATION (2) MASS	CONCENT	(1) CONCENTRATION (2) MASS	d. NO. OF ANALYSES	a. CONCEN-	b. MASS	(1) CONCENTRATION	ASS	b. NO. OF ANALYSES
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)	- VOLATILE	COMPOUNDS ((continued)								
22V. Methylene Chloride (75-09-2) 23V. 1.1,2,2- Tetrachlorcethane											
(79-34-5) 24V. Tetrachloro- ethylene (127-18-4)											
25V. Toluene (108-88-3)											
26V. 1,2-Trans- Dichloroethylene (156-60-5)											
27V, 1,1,1-Trichloro- ethane (71-55-6)											
28V, 1,1,2-Trichloro- ethane (79-00-5)											
29V Trichloro- ethylene (79-01-6)											
30V. Trichloro- fluoromethane (75-69-4)											
31V. Vinyl Chloride (75-01-4)										,	
GC/MS FRACTION				See At	Attachment 2C-3	m					
1A. 2-Chlorophenot (95-57-8)											
2A, 2,4-Dichtoro- phenol (120-83-2)											
3A. 2,4-Dimethyl- phenol (105-67-9)											
4A. 4,6-Dinitro-O- Cresol (534-52-1)											
5A. 2,4-Dinitro- phenol (51-28-5)											
6A. 2-Nitrophenol (88-75-5)											
7A. 4-Nitrophenol (100-02-7)				,							
8A. P-Chloro-M- Cresol (59-50-7)											
9A. Pentachloro- phenol (87-86-5)											
10A. Phenol (108-95-2)											
11A. 2.4,6-Trichloro- phenol (88-05-2)											

EPA Form 3510-2C (8-90)

PAGE V-5

CONTINUE ON REVERSE

CONTINUE ON PAGE V-7

See Attachment 2C-3

CONCENTRATION (2) MASS ANALYSES

b. MASS

a. CONCENTRATION

c. LONG TERM AVRG. VALUE (If available)

3. EFFLUENT
b. MAXIMUM 30 DAY VALUE
(if available)

a. MAXIMUM DAILY VALUE

2. MARK "X"

CONTINUED FROM THE FRONT

GCMS FRACTION - BASENEUTRAL COMPOUNDS

1B Acenaphthene (83-32-9)

28. Accraphtylene (208-96-8)
38. Anthracene (120-12-7)
48. Berzidine (92-87-5)
59. Berzid (4)
Anthracene (95-55-3)
68. Berzid (4)
Anthracene (50-32-8)
78. 34-Berzid (7)
Pyrene (50-32-8)
78. 34-Berzid (7)
79. 34-Berzid (7)
79. 34-Berzid (7)
79. 36-89-2)

8B. Benzo (ghi) Perylene (191-24-2)

9B. Benzo (I)
Fluoranthene
(207-08-9)
(107-08-18 (2-Chlornenhoxy) Methane
(111-91-1)
11B. Bis (2-Chlornenhoxy) Ether
(111-44-4)
12B. Bis (2-

AND CAS NUMBER (if available)

1. POLLUTANT

5. INTAKE (opmonut)

4. UNITS

a. LONG TERM AVERAGE VALUE

EPA Form 3510-2C (8-90)

21B. 1,3-Di-chloro-benzene (541-73-1)

198. Dibenzo (a.h) Anthracene (53-70-3) 208. 1,2-Dichloro-benzene (95-50-1)

148. 4-Bromophenyl Phenyl Ether (101-55-3) 158. Buryl Benzyl Phthralette (85-68-7) 168. 2-Choro-naphthalene (91-58-7)

Chloroisopropyl) Ether (102-80-1) 138. Bis (2: Ethyl-lexyl) Phthalate (117-81-7)

17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)

18B. Chrysene (218-01-9)

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TMATH LOG 1	7	A ANAM			S. EFFLOENI	L		5		o. Description	(an)
	rd	نم	ن	a. MAXIMUM DAILY VALUE	b. MAXIMUM 30 DAY VALUE (if available)	c. LONG TERM AVRG. VALUE (if available)		C		a. LONG TERM AVERAGE VALUE	<u> </u>
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	ABSENT	(1) CONCENTRATION (2) MASS	(1) CONCENTRATION (2) MASS	(1) CONCENTRATION (2) N	(2) MASS ANALYSES	a. CONCENT	b. MASS	(1) CONCENTRATION (2) MASS	ANALYSES
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)	N - BASE/NE	EUTRAL CO	MPOUNDS	S (continued)							
228. 1.4-Dichloro- benzene (106-46-7)							į				
23B. 3,3-Dichloro- benzidine (91-94-1)											
24B. Diethyl Phthalate (84-66-2)	··-										
25B. Dimethyl Phthalate (131 -11-3)											
26B. Di-N-Buty Phthalate (84-74-2)	T										
27B. 2,4-Dinitro- toluene (121-14-2)	····										
28B. 2,6-Dinitro- toluene (606-20-2)	T										
29B. Di-N-Octyl Phthalate (117-84-0)	· – =										
30B. 1,2-Diphenylhydrazine (as Azo-											
31B. Fluoranthene (206-44-0)	ন										
32B. Fluorene (86-73-7)	.				See At	Attachment 2	2C-3				
33B. Hexachtoro- benzene (118-74-1)	1						ı				
34B. Hexachloro- butadiene (87-68-3)	1										
35B. Hexachloro- cyclopentadiene (77-47-4)											
36B Hexachloro- ethane (67-72-1)	T										
378. Indeno (1.2.3-cd) Pyrene (193-39-5)	····										
38B. Isophorone (78-59-1)	T										
39B. Naphthalene (91-20-3)	r										
40B. Nitrobenzene (98-95-3)	Γ										
41B. N-Nitro- sodimethylamine	r										
42B. N-Nitrosodi-	1										
N-Propylamine (621-64-7)											

PAGE V-7

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EPA Form 3510-2C (8-90)

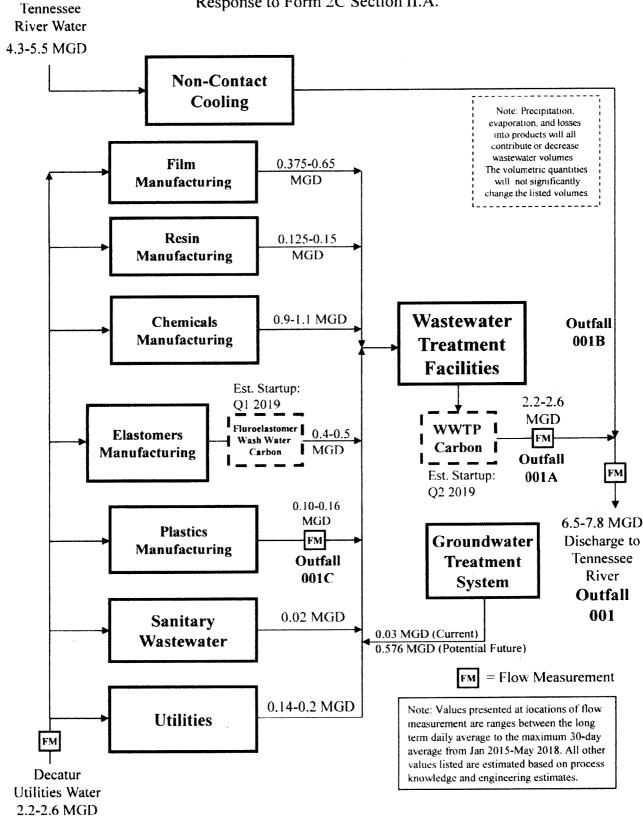
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1. POLLUTANT				D. MAXIMUM	C. LONG TERM AVRG.		a. LONG TERM AVERAGE VALUE	_ u
CAS NUMBER	a. b. TESTING BELIEVED REQUIRED PRESENT	D BELIEVED	a. MAXIMUM DAILY VALUE (1) (2) MASS	(i) avanache) (1) (2) MASS	SS	d. NO. OF a. CONCEN- ANALYSES TRATION b. N	b. MASS CONCENTRATION (2)	(2) MASS ANALYSES
GC/MS FRACTION	GCMS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)	COMPOUND						
43B. N-Nitro- sodiphenylamine (86-30-6)								
448. Phenanthrene (85-01-8)								
45B. Pyrene (129-00-0)								
46B. 1,2,4-Tri- chlorobenzene (120,82.1)								
GC/MS FRACTION								
1P. Aldrin (309-00-2)								
2P. u-BHC (319-84-6)								
3P. 6-8HC (319-85-7)								
4P. y-BHC (58-89-9)								
5P. 8-BHC (319-86-8)	•							
6P. Chlordane (57-74-9)				See At	Attachment 2C-3			
7P. 4,4'-DDT (50-29-3)								
8P. 4,4'-DDE (72-55-9)								
9P. 4,4'-DDD (72-54-8)								
10P. Dieldrin (60-57-1)								
11P. a-Enosulfan (115-29-7)			,					
12P. β-Endosulfan (115-29-7)								
13P. Endosultan Sulfate (1031-07-8)	,							
14P. Endrin (72-20-8)	•							
15P. Endrin Aldehyde (7421-93-4)								
16P. Heptachlor (76-44-8)								
EPA Form 3510-2C (8-90)	(06-9)			PAGI	PAGE V-8		CONT	CONTINUE ON PAGE V-9

e:	0.1	4. UNITS 5. INTAKE (optional)	a. LONG TERM AVERAGE VALUE	d. NO. OF a. CONCEN- ANALYSES TRATION b. MASS CONC						2C-3					
OUTFALL NUMBER	DSN 001		c. LONG TERM AVRG. VALUE (if available)	(1) CONCENTRATION (2) MASS						See Attachment 2C-3					V-9
! of Form 1)		3. EFFLUENT	DAY VALUE	(2) MASS						See At					PAGE V-9
EPA I.D. NUMBER (copy from Item 1 of Form 1)	AL0000205	3.	b. MAXIMUM 30 DAY VALUE (if available)	(1) CONCENTRATION											
1.D. NUMBER	AL		Y VALUE	(2) MASS											
EP,			a. MAXIMUM DAIL	(1) CONCENTRATION											
			Ü	BELIEVED ABSENT	(pan										
		2. MARK "X"	,ci	BELIEVED	DES (continu										
	PAGE V-8	2.	ei	1ESTING REQUIRED	- PESTICIE										(8-90)
	CONTINUED FROM PAGE V-8		1. POLLUTANT AND		GC/MS FRACTION - PESTICIDES (continued)	17P. Heptachtor Epoxide (1024-57-3)	18P. PCB-1242 (53469-21-9)	19P. PCB-1254 (11097-69-1)	20P. PCB-1221 (11104-28-2)	21P. PCB-1232 (11141-16-5)	22P. PCB-1248 (12672-29-6)	23P. PCB-1260 (11096-82-5)	24P, PCB-1016 (12674-11-2)	25P. Toxaphene (8001-35-2)	EPA Form 3510-2C (8-90)

Figure 2C-1: Water Flow Diagram

Response to Form 2C Section II.A.



Attachment 2C-2: Operations Contributing Flow and Treatment Technologies

Response to Form 2C Section II.B.

	2. Operations Contribution	ng Flow	3. Treatment	
1. Outfall Number (list) 001	a. Operation (list) Non -contact cooling water from Outfall 001B and treated process wastewater from Outfall 001A	b. Average Flow (include units) 6.5-7.8 MGD	a. Description Discharge to Surface Water	b. List Codes from Table 2C-1 4-A
001A	Wastewater Treatment Facilities	2.2-2.6 MGD	Pre-settling	1-U
0017	Truste Water II Cathier I Camera		Screening	1-T
			Mixing	1-0
			Neutralization	2-K
			Precipitation	2-C
			Coagulation	2-D
			Flocculation	1-G
			Primary Settling	1-∪
			Activated Sludge	3-A
			Secondary Settling	1-U
	·		Aerobic Digestion	5-A
			Gravity Thickening	5-L
			Pressure Filtration	5-R
			Landfill	5-Q
			Polishing Ponds (Settling)	1-U
			Carbon Adsorption	2-A
			Disinfection (UV)	2-H
	Film Manufacturing	0.375-0.65 MGD	To Wastewater Treatment Facilities	
	Resin Manufacturing	0.125-0.15 MGD	To Wastewater Treatment Facilities	
	Specialty Chemicals Manufacturing	0.9-1.1 MGD	To Wastewater Treatment Facilities	
	Elastomers Manufacturing	0.4-0.5 MGD	Carbon Adsorption	2-A
	Outfall 001C	0.10-0.16 MGD	To Wastewater Treatment Facilities	
	Groundwater Treatment	0.03 MGD	Gas-Phase Separation	1-K
	Sanitary Wastewater	0.02 MGD	To Wastewater Treatment Facilities	
	Utilities	0.14-0.2 MGD	To Wastewater Treatment Facilities	
001B	Non-contact cooling water	4.3-5.5 MGD	To Outfall 001	
001C	Plastics Manufacturing	0.10-0.16 MGD	Neutralization	2-K

^{*}See Attachment B for wastewater flow diagram. See Attachment C1 & C2 for wastewater treatment descriptions

Attachment 2C-2: Narrative Description of Wastewater Treatment Facilities

The descriptions provided in this attachment are intended to augment the information that is requested in Section II.B. of Form 2C. Provided in this section is a general description of the wastewater treatment and pretreatment facilities.

A. Pretreatment Systems

Wastewaters from different areas of the facility are pretreated prior to discharge into the site's main wastewater treatment facilities.

1. Groundwater Treatment System, Site Remediation, and other activities

A dedicated pretreatment system is used for the treatment of wastewaters that are generated in site remediation activities including a groundwater pump-out system. The system includes an equalization tank, clarifier, bag filters, an air stripper with vapor phase carbon adsorption, and granular activated carbon. The design flowrate of this system is approximately 50 gpm. 3M has plans to increase the design flowrate to 170 gpm later in 2018. Wastewaters may be treated using only granular activated carbon. This system discharges into the equalization tanks.

2. Process Steam Stripper

Process wastewaters from Chemicals and Resin Manufacturing that are contaminated with solvents are first treated in a process steam stripper. Most of these wastewaters are conveyed through a dedicated sewer system to the steam stripper process, while some are containerized and conveyed to the system in batches. This system uses process steam to remove volatile organic chemicals from these wastewaters which are subsequently recovered in a condenser and shipped off-site for disposal. The system includes a decanter, two 20,000 gallon storage/feed tanks, a distillation column, and a condenser. The maximum feed rate for the system is 20 gpm. Wastewaters may also be stored in portable storage tanks during system shutdowns and maintenance. The discharge from the process steam stripper is mixed with other wastewaters and conveyed to the main wastewater treatment facilities.

3. In-Process Treatment

Process wastewaters may be treated in production vessels using several methods. This may include neutralization, liquid/liquid ion exchange, and activated carbon adsorption. Wastewaters that are generated in Plastics Manufacturing may be neutralized prior to discharge (through Outfall 001C) into the main wastewater treatment operations.

4. Fluoroelastomer Wash Water Carbon Treatment

Per previous notifications submitted to ADEM, 3M is currently constructing a new pretreatment process that will provide treatment to reduce Soluble Organic Fluorine (SOF) compounds in wastewater generated by Elastomers Manufacturing. Wash water generated by the Elastomers operations will be pumped to an existing equalization tank. The equalized flow will then be sent through a new carbon treatment system before being sent to the main wastewater treatment operations. The anticipated startup of this system is the first quarter of 2019.

B. Site Wastewater Treatment Facilities

The main wastewater treatment plant is described in overview below and in further detail in Attachment C2.

1. Presettling Tank

Prior to entering the Chemical Waste Treatment System, each wastewater stream enters a presettling tank which is used to remove large solids which might clog or damage downstream wastewater treatment equipment.

2. Bar Screen Filtration

Wastewater is delivered from the process areas to the treatment plant via three sewer systems. Each sewer is equipped with a vertical slat, automatic cleaning bar screen to further remove solids before the wastewater is pumped to the equalization tanks. This filtration serves to protect the pumps and other downstream equipment in the wastewater treatment.

3. Equalization

Equalization provides the wastewater treatment plant with more uniform hydraulic and pollutant loading. This is accomplished with two separate equalization systems. The main system was designed with two fully mixed approximately 600,000 gallon above ground equalization tanks. The equalization tanks are normally operated in series with the first tank operating full and overflowing to the second tank. The level in the second tank fluctuates to provide hydraulic buffering. In the event of an upstream release of a waste which could be harmful to the activated sludge system, the release can be captured in the first equalization tank while the second tank remains online. A surge tank is also used to capture increases in flow that will be associated with rainfall events. Acid may be added to these tanks for pH control.

4. Chemical Neutralization/Precipitation/Coagulation/Flocculation

Wastewater flows from the equalization tanks to a rapid mix tank where lime is added, resulting in calcium fluoride precipitate and coagulated suspended solids. The wastewater flows into the flocculation tanks where an organic polymer is added to agglomerate the

suspended material and assist in its settling.

5. Clarification

Following flocculation, wastewater flows into primary clarifiers, where settleable solids are removed and pumped into a thickener for further concentration or directly to the plate and frame filter press.

6. Activated Sludge Biological Treatment

The 3M Decatur WWTP is equipped with two separate activated sludge systems that can operate in parallel or series. The first system consists of two aeration tanks operating in parallel. The second system consists of two Advent® Integrated Systems (AIS) tanks operating in parallel. The AIS system can be operated in parallel with the aeration tanks with the flow proportioned between the two systems or in series with the tanks receiving the effluent of the final clarifiers. The activated sludge process is used to remove biodegradable organic pollutants from the wastewater.

7. Clarification

Each activated sludge system removes biological sludge in a different manner. In the first system, activated sludge from the aeration tanks is mixed and then split to the two final clarifiers. The biological solids settle in the clarifiers where they are removed and the sludge is recirculated to the head of the aeration tanks. This provides active biomass for the activated sludge process. Excess sludge is pumped into the digester. The AIS tanks contain integral clarifiers in each tank that remove and recirculate the biomass within each tank. Excess sludge is removed from the AIS tanks and is pumped into the digester.

8. Sludge Management

The 3M WWTP is equipped with a sludge thickener and an aerobic digester. The aerobic digester receives waste activated sludge from the final clarifiers or the AIS tanks. The thickeners receive sludge from the digester and both primary clarifiers.

The thickeners reduce the volume of the sludge by increasing the percentage of solids in the sludge. Supernatant from the thickener flows back to a lift station at the head of the WWTP.

The thickened sludge is pumped to a hydraulic sludge press which dewaters the sludge and further increases the solids content of the sludge. The sludge cake is discharged into a dump trailer and disposed in an off-site landfill.

9. Polishing Ponds

The wastewater flows through a series of two polishing ponds to remove any remaining biomass or settleable solids. The second pond is divided into two cells by a weir. The water leaving the second polishing pond flows through a sampling/measuring station and mixes with the non-contact cooling water before being discharged to Baker's Creek.

10. WWTP Carbon Treatment

Per previous notifications to ADEM, 3M is currently constructing a new carbon treatment system that will reduce the concentrations of many of the pollutants currently analyzed and reported for in the discharge through DSN 001. The proposed carbon treatment system would be installed after the polishing ponds, prior to disinfection. The anticipated startup of this system is the second quarter of 2019.

11. Disinfection

Wastewaters are treated in an Ultraviolet (UV) disinfection system which reduces fecal coliform values to less than those levels required in the NPDES permit. UV disinfection is located prior to mixing with non-contact cooling water and discharge through DSN 001.

Attachment 2C-2: Design Description of Wastewater Treatment System

The descriptions provided in this attachment are intended to augment the information that is requested in Section II.B. of Form 2C. Provided in this section is a summary of the sizes, volumes, capabilities, etc. of the treatment units that are provided in the chemical waste treatment system.

1. System Parameters

a. Design Flow Rate (average): 1400 gpm

2. Control, Electronic Data Logging, and Trend Analysis System

- a. Type: Programmable Logic Controller
- b. Parameters
 - 1. Influent pH
 - 2. Equalization Tank pH
 - 3. Equalization Tank level
 - 4. Rapid Mix ph
 - 5. Flocculation Tank pH
 - 6. Equalized flow rate
 - 7. Aeration Tank Dissolved Oxygen
 - 8. Activated sludge recycle flow rate
 - 9. Final clarifier effluent pH
 - 10. DSN001 pH and flow rate

3. Surge Tank

a. Number of Tanks:

b. Tank Dimensions: 90 ft. diameter, 14 ft. height

c. Water Depth: 11 ft.

d. Liquid Working Volume: 70,000 ft³ (523,000 gallons)

e. Purpose: Accumulation of excess influent associate with

precipitation events

4. pH Adjustment

a. Reagent: Lime Slurry

b. Storage Tank: 30,000 gallons (Shared with N/F Treatment

System

c. Feed Control: Automated control valve modulates pumped

slurry feed

d. Purpose: First stage neutralization

5. Presettling Tank

a. Number of Tanks:

2 (in parallel)

b. Total Volume:

34,000 gallons

c. Purpose:

Removal of large solids

6. Influent Lift Pumps, Screw Pumps

a. Number of Pumps:

2 (in parallel)

b. Pump Capacity:

1700 gpm per pump

c. Pump Lift:

12 ft.

7. Screw Lift Pumps to Equalization Tank

a. Number of pumps:

2 (in parallel)

b. Pump Capacity:

1700 gpm per pump

c. Pump Lift:

24.5 ft.

8. Equalization Tanks

a. Design:

Above ground with sub floor leak detection

b. Number of Tanks:

2

c. Tank Dimensions:

69 ft. diameter, 22 ft. height

d. Water Depth:

20 ft. maximum, 5 ft. minimum 82,264 ft³ (614,000 gallons) per cell

e. Liquid Working Volume:

One 15 HP turbine mixer per tank

f. Mixing:

Maximum Hydraulic

Detention Time:

15.7 hours total at design flow rate

9. pH adjustment

g.

a. Reagent

Sulfuric acid

b. Plant sulfuric acid storage tank

c. Acid feed

Automated control valve modulates acid feed

d. Purpose

pH reduction

10. pH Adjustment

a. Reagent:

Lime Slurry

b. Lime Slurry Storage:

50,000 gallons (Shared with N/F Treatment

System)

c. Lime Feed:

Automated control valve modulates pumped

slurry feed

d. Purpose:

Precipitation, coagulation, neutralization

Rapid Mix Tank 11.

Number of Tanks:

12 ft. x 12 ft. x 13.5 ft. height

Dimensions: b. Water Depth:

12 ft.

c. Liquid Volume: d.

13,000 gallons

Mixer: e.

7.5 hp

f. Detention time: 9.3 minutes

Flocculation Tanks 12.

Number of cells: a.

Cell dimensions: b.

12 ft. x 12 ft. x 13.5 ft. height

Water Depth: ¢.

12 ft.

Liquid Volume: d.

13,000 gallons per cell

Mixer: e.

2 mixers, 3 hp each

f. **Detention Time:** 18.6 minutes

Flocculant Feed for Primary Clarifier 13.

Coagulant: a.

Organic wastewater treatment polymer

Storage Tank: b.

3,000 gallons

Feed System: c.

Variable Speed Pump

Primary Clarifier 14.

Number of Tanks: a.

2 (in parallel)

Tank Diameter: b.

60 ft. & 50 ft.

Sidewall Depth: c.

9 ft.

Volume: d.

25,446 ft3 (190,300 gal) & 17,665 ft3 (132,100 gal)

Surface Area: e.

2,830 ft²

Surface Setting Rate: f.

712 gpd/ft²

Detention Time: g.

2.3 hours

Floor Loading: h.

14.1 lbs. per day/ ft² (40,000 lbs/day)

15. **Primary Sludge Pumps**

Number of Pumps: a.

2 (spare pump shared with Nickel/Fluoride

system)

Capacity: b.

350 gpm @ 30 ft. head

Horsepower Rating: c.

5 hp

Aeration Tanks (Original) 16.

Number of Tanks: a.

Dimensions: b.

146 ft. x 26 ft. x 19 ft. height

Water Depth: c.

15 ft.

115,000 ft³ (860,000 gallons) d. Liquid Volume: 11,500 lbs/day e. Organic Load: 101 ppd per 1,000 ft³ f. Tank Unit Load: Detention Time: 10.2 hours g. Air Required: 10,000 cfm h. MLSS: 7,000 mg/Li. **Aeration Blowers** Number of Blowers: a. 3 (a) 4000 cfm b. Capacity: 1 (a) 2400 cfm Horsepower Rating: 3 @ 200 hp **AIS Tanks** Number of Tanks: a. 1,770,000 gal b. Volume (total): Hydraulic Retention Time: 16.8 hrs c. 8,200 mg/l MLSS d. 13,622 lbs/day Oxygen Requirement e. f. F/M 0.14 3 @ 4,000 CFM Blowers: g. Water Depth: 27 ft AIS Tanks pH control Magnesium hydroxide Reagent a. b. Volume pH probe c. Control **Nutrient Feed for Aeration Tanks** Phosphoric Acid Nutrient: a. 7,000 gallons (Existing Tank) Storage: **Gravity Feed** Feed System: Dry Urea Nutrient: b. Storage: Bags Manual Feed System: **Final Clarifiers**

21.

17.

18.

19.

20.

2 Number of Tanks a. 75 ft. Tank Diameter: b. Sidewall Depth: 12 ft. c. 35,342 ft³ (264,000 gallons) Volume: d. 4,418 ft² per tank Surface Area: e. Surface Settling Rate: 228 gpd/ft² f.

g. Detention Time:

h. Floor Loading: 37.1 lbs. per day/ft² (328,000 lbs. per day)

6.3 hours

22. Return Sludge Pumps

a. Number of Pumps: 2

b. Capacity: 1100 gpm @ 30 ft. head

c. Horsepower Rating: 20 hp

23. Aerobic Digester Basin for Wasted Activated Sludge

a. Number of Tanks:

b. Dimensions: 146 ft. x 22 ft. x 19 ft. height

Water Depth: 15 ft.

d. Liquid Volume: 360,000 gallons

e. Detention Time: 15 days

f. Air Required: 600 lbs. oxygen per day,

725 cfm mixing requirement

g. Sludge Transfer Pump: 5 hp, 100 gpm @60 ft. height

24. Sludge Dewatering

c.

a. Number of units:

b. Type: Plate and Frame Dewatering Press

c. Capacity: 225 cf per cycle

d. Operating Pressure: 100 psi

e. Solids Processing

Capacity: 18 tons per day (dry solids) on one 8-hour shift

25. Sludge Storage Basins

a. Number:

b. Volume: Approx. 3 MM gallons and 1 MM gallons

26. Polishing Pond #1

b.

a. Volume: 2,200,000 gallons

Depth: 8 ft.

Retention Time: 24 hours

27. Polishing Pond #2

a. First Cell

1. Volume: 1,700,000 gallons

2. Depth: 8 ft

3. Retention Time:

19 hours

b. Second Cell

2.

1. Volume: 900,000 gallons

Depth: 8 ft

Retention Time: 9 hours 3.

Granular Activated Carbon System (Anticipated Startup in Quarter 2, 2019) 28.

a. Number of Tanks 22 (11 Pair) 10 ft. Tank Diameter: b.

Tank Height: 23 ft. c.

d. Tank Type: Calgon Carbon Corporation Model 10 Vessels

Tank Capacity: 20,000 lbs. of carbon per tank e.

20 minutes (at maximum design capacity) Carbon Contact Time: f.

Design Flow: 2.14 MGD – 2.65 MGD (future) g.

Maximum Design Capacity 3.4 MGD h.

29. **Ultraviolet Light Disinfection**

2.14 MGD – 2.65 MGD (future) Current Design Flow: a.

Design Capability: 4.8 MGD b.

Total Channels: 2 c.

Channel Dimension: 16'X1.33'X4.5' height d.

Transmittance: 70% minimum @ 253.7 nm e.

Attachment 2C-3: Effluent Characteristics

DSN 001

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4V. Bis (Chloromethyl) Ether	×		×	0	0					H	mg/L	lb/day
SV Bromoform	×		×	0	0			,		-	1/8m	lb/day
6V Carbon Tetrachloride	×		×	0	0	decessor to			:	· •	J/8m	lb/day
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IUV. 2-Chloroethylviny Ether	< >		< 1 >		0						100	(10/01)
11V. Chlorotorm	×		< >	0	> 0			:		4	101	10/day
12V. Dichlorobromethane	*		× :	.	> 0			and the second s		4		in/day
13V Dichlorodifluoromethane	×	-	× :	>	o (-			4 +	1/3	in/day
14V. 1,1-Dichloroethane	× :	1:	*	5	3			:	-	4 i	7	heo/as
15V. 1,2-Dichloroethane	× !:	× :		.	o c	-				4	mg/L	yea/o
16V. 1,1-Dichloroethylene	×:	×	;	> •	3 (٠, ٠	1	APO/OI
17V. 1,2-Dichloropropane	× ; ;	:	× ;	>	5 0					٠.	10	in/day
18V. 1,3-Dichloropropylene	×		×	> -	>	-			* *************************************	4	2	10/04
19V. Ethylbenzene	×	×		0	0				1	7	mg/L	/ep/qi
20V. Methyl Bromide	×		×	0	0			1	:	7-4	mg/L	kep/q
21V. Methyl Chloride	×		×	0	0					-	-1/3m	lb/day
22V. Methylene Chloride	×		×	0	0					-	mg/L	ib/day
23V. 1.1.2.2-Tetrachloroethane	×		×	0	0	h				-	mg/L	lb/day
24V Tetrachloroethylene	×		×	•	0		· .				mg/L	lb/day
25V Toluene	×	×		0	0					H	1/8m	lb/day
		-										

Long-term averages not calculated if only one result is reported.

30-day values not calculated for pollutants monitored on a monthly or less frequent basis.

Concentration and mass values of "0" indicate results below detection limit

Attachment 2C-3: Effluent Characteristics

DSN 001

			MARK X					EFFLUENT				SIED	2
	POLLUTANT	Testing		Believed	Max. Daily	2	Max. 30 Day Max. 30 Day		tong Term	Long Term	No. of		
		Required	Present	Absent	Conc.	Mass	Conc	Mass	Avg. Conc.	Avg. Mass	Analyses	CONC. UNITS	Mass Units
267	26V. 1,2-Trans-Dichloroethylene	×		×	0	0					1	mg/t	lb/day
27V.	/. 1,1,1-Trichloroethane	×		×	0	0					1	mg/t	lb/day
28V.	/, 1,1,2-Trichloroethane	×		×	0	0					τ	mg/l	lb/day
29V.	/. Trichloroethylene	×		×	0	0					1	mg/l	lb/day
30v.	7. Trichlorofluoromethane	×		×	0	0					1	1/8m	lb/day
31V.	7. Vinyl Chloride	×		×		0					1	mg/l	tb/day
GC/MS	GC/MS FRACTION - ACID COMPOUNDS												
1A.	2. Chlorophenol	×		×	0	0					-	mg/t	lb/day
7A.	1, 2,4-Dichlorophenol	×		×	0	0					-	mg/t	lb/day
3A.	2, 2,4-Dimethylphenol	×		×	0	0					1	1/8m	lb/day
4A.	A. 4,6-Dinitro-O-Cresol	×		×	0	0					-	mg/L	lb/day
SA.	1, 2,4-Dinitrophenol	×		×	0	0					1	mg/t	lb/day
6A.	2-Nitrophenol	×		×	0	0					-	1/8w	lb/day
7A.	A 4-Nitrophenol	×		×	0	0					1	1/8w	tep/qı
8A.	A. P-Chloro-M-Cresol	×		×	0	0					1	1/8m	ib/day
9A.	A. Pentachlorophenoi	×		×	0	0					1	mg/l	lb/day
10A.		×	×		0	0			-		1	1/8w	lb/day
11A.	4. [2,4,6-Trichlorophenol	×		×	0	0					-	mg/t	lb/day
GC/MS	GC/MS FRACTION BASE/NEUTRAL COMPOUNDS												
=	18. Acenaphthene	×	_	×	0	0					-	mg/i	lb/day
75	28. Acenaphtylene	×		×	0	0					-	1/8w	lb/day
₩ 	38. Anthracene	×		×	0	0					-	mg/t	lb/day
4	48. Benzidine	×		×	0	0					1	mg/L	Aep/qi
3	58. Benzo (a) Anthracene	×		×	0	0					-	mg/t	ip/day
9	68. Benzo (a) Pyrene	×		×	0	0					٠,	1/3c	Agp/qi
7.	78. 3,4-Benzofluoranthene	×		×	0	0					-	1/8u	lo/day
8	8B. Benzo (ghi) Perylene	×		×	0	0					7	1/8u	lo/day
5	98. Benzo (k) Fluoranthene	×		× ,	9	> 0					1	1118/L	th/day
118	105. bis (2-Ciliotoetiloxy) inetilarie	< ×		(×	•	> c						mg/L	lb/day
128	B. Bis (2-Chloroisopropy) Ether	×		×	0	0					-	mg/L	lb/day
138.	B. Bis (2-Ethylhexyl) Phthalate	×		×	0	0			THE REPORT OF THE PERSON OF TH		-	1/8m	lb/day
148.	8. 4-Bromophenyl Phenyl Ether	×		×	0	0					1	1/8m	lb/day
158.	B. Butyl Benzyl Phthalate	×		×	0	0					1	ng/L	lb/day
168.		×		×	0	0					1	ng/t	lb/day
178.	B. 4-Chlorophenyl Phenyl Ether	×		×	0	0					1	mg/L	lb/day
188.	8. Chrysene	×		×	0	0					1	mg/L	lb/day
198.	8. Dibenzo (a,h) Anthracene	×		×	0	0					1	mg/L	lb/day
208.	8. [1,2-Dichlorobenzene	×		×	0	0					н	mg/t	lb/day
218.	8. [1,3-Dichlorobenzene	×		×	0	0					7	mg/L	lb/day
22	22B. 1,4-Dichlorobenzene	×		×	0	0					-	mg/L	lb/day
238.	8. 3,3-Dichlorobenzidine	×		×	٥	0						mg/L	fb/day
24	248. Diethyl Phthalate	×		×	0	0					-	mg/L	lb/day
22	25B. Dimethyl Phthalate	×		×	0	0					н	mg/L	lb/day
26	26B. Di-N-Butyl Phthalate	×		×	٥						-	mg/L	lp/day

Long-term averages not calculated if only one result is reported.

30-day values not calculated for pollutants monitored on a monthly or less frequent basis. Concentration and mass values of "O" indicate results below detection limit.

Attachment 2C-3: Effluent Characteristics

DSN 001

		MADE "Y"					FEELLIENT				PINIT	75
		-										2
POLLUTANT	Testing	Believed	Believed	Max. Daily	Max. Daily	Max. 30 Day Max. 30 Day	Max, 30 Day	Long Term	Long Term	No. of		
	Required	Present	Absent	Conc.	Mass	Conc.	Mass	Avg. Conc.	Avg. Mass	Analyses	Conc. Units	Mass Units
27B. 2,4-Dinitrotoluene	×		×	0	0					1	mg/L	lb/day
288. 2,6-Dinitrotoluene	×		×	0	0					1	1/8w	lb/day
29B. Di-N-Octyl Phthalate	×		×	0	0					1	mg/t	lb/day
308. [1,2-Diphenylhydrazine (as Azo-benzene)	×		×	0	0					1	mg/t	lb/day
31B. Fluoranthene	×		×	0	0					1	mg/L	lb/day
32B. Fluorene	×		×	0	0					1	mg/L	lb/day
338. Hexachlorobenzene	×		×	0	0						mg/l	lb/day
34B. Hexachlorobutadiene	×		×	0	0					-	mg/L	lb/day
35B. Hexachlorocyclopentadiene	×		×	0	0					-	mg/L	lb/day
	×		×	0	0					1	mg/L	lb/day
37B. Indeno (1,2,3-cd) Pyrene	×		×	0	0					1	mg/L	lb/day
388. Isophorone	×		×	0	0					1	mg/t	lb/day
39B. Napthalene	×		×	0	0					1	mg/L	lb/day
40B. Nitrobenzene	×		×	0	0					1	mg/L	lb/day
41B. N-Nitrosodimethylamine	×		×	0	0					1	mg/L	lb/day
428. N-trosodi-N-Propylamine	×		×	0	0					-	mg/L	lb/day
43B. N-Nitrosodiphenylamine	×		×	О	0					1	mg/t	ib/day
448. Phenanthrene	×		×	0	0					7	mg/L	lb/day
458. Pyrene	×		×	0	0					7	mg/t	lb/day
46B. 1,2,4-Trichlorobenzene	×		×	0	0					1	mg/L	lb/day
SECIDIES OF NOLLOWS												
19 Merin	×		×	c	c					-	I/sw	lh/dav
2P. Alpha-BHC	: ×		×	0	0					1 1	me/L	lb/dav
3P. Beta-BHC	×		×	0	0					-	mg/t	lb/day
4P. Gamma-BHC	×		×	0	0					-	mg/t	lb/day
5P. Delta-BHC	×		×	0	0					1	mg/t	lb/day
6P. Chlordane	×		×	0	0					1	1/8m	lb/day
7P. 4,4'-0DT	×		×	0	0					1	mg/L	lb/day
8P. 4,4'-DDE	×		×	0	0					-	mg/l	lb/day
9P. 4,4-DDD	× >		× ×	5	0					- F	1/3m	ib/day
110 Alaha Cadacattan			,		, ,					•	1/000	lh/day
12P. Beta-Endosulfan	×		×	0	, 0						mg/L	lb/day
13P. Endosulfan Sulfate	×		×	0	0						mg/t	lb/day
14P. Endrin	×		×	0	0					1	mg/t	lb/day
15P. Endrin Aldehyde	×		×	0	0					н	mg/t	lb/day
16P. Heptachlor	×		×	o	0					-	mg/r	lb/day
17P. Heptachlor Epoxide	×		×	٥	٥					#	mg/L	lb/day
	×		×	0	0						mg/L	lb/day
19P. PCB-1254	×		×	0	0					1	mg/t	lb/day
20P. PCB-1221	×		×	0	0					-	mg/t	lb/day
21P. PCB-1232	×		×	0	0					-	mg/t	lb/day
22P. PCB-1248	×		×	0	0					-	mg/t	lb/day
23P. PCB-1260	×		Υ :	0	0					т ,	1/8w	yeb/di
24P. PCB-1016	×		×	0	0					ı	mg/l	ID/day
25P. Toxaphene	×		×	٥	0					-	mg/l	lb/day

Long term averages not calculated if only one result is reported.

30-day values not calculated for pollutants monitored on a monthly or less frequent basis.

Concentration and mass values of "O" indirate results helms detection limit.

Attachment 2C-3: Effluent Characteristics

DSN 001

POLITIVATI Tracks (executed cargingle trans the present of the												,
Present Alzent Conc. Mass Conc. Mass Ang. Conc. Ang. Mass Ang. Font. A			MARK "X"					EFFLUENT		(g)	Š	
See Attachment 2C4	POLLUTANT	Testing Requires			Max. Daily Conc.		Max. 30 Day Conc.	Max. 30 Day Long Mass Avg.			Conc. Units	Mass Units
Die 2C.3 and materials usage and storage positic (testing not required) No.00956	Permit required sampling for poly- and perfluoroality	substances (PFA)	G	5073			1	and the state of t			1	TOTAL DESIGNATION OF THE PERSON
See Attachment XC4	Perfluorobutanoic Acid (PFBA) Perfluoroheptanoic Acid (PFHpA) Perfluorohexanoic Acid (PFHxA)											
Perfliction obstaces and Performance (PERA)	Perfluoroctanoic Acid (PFOA) Perfluorobutanesulfonate (PFBS) Perfluorobexanesulfonate (PFHS)						See A	tachment 2C-4				
	Perfluorooctanesulfonate (PFOS) Perfluorobutanesulfonamide (PFBSA) Perfluoroctanesulfonamide (PFOSA) 2 (N-methor-PFOSA) aceite acid											
Any activity of the reported if present, determined by review of hale ACS and materials usage and storage and storage materials usage and storage and stor												
NA		A.	rable 2C-3 ar X			torage onsite 0.541	testing not re	(daired			1/8w	lb/day
Mark Mark	Allyl alchohol	2		×	:				•	0		
NA	Altyl chloride	X 3		× >				•		0 0		
NA	Amyl acetate Aniline	£ £	: :	< ×	:					0	-	
NA	Benzonitrile	2		×					•	o:		:
issuffide NA X NA X NA X Issuffide NA X NA X NA X NA X NA X A Dichlorophenoxyacetic acid; NA X NA X A Dichlorophenoxyacetic acid; NA X	Benzyl chloride	Ž	×		0	•					mg/L	lb/day
NA	Butyl acetate Butylamine	ž ž		* ×					*	• ₁ • •		
NA	Captan	ž		×						0		
N	Carabaryl	ž		×				-	•	0		
rophenoxyacetic acid	Carbofuran	ž		× (>				,	••••	.		
chloropherioxyacetic acid NA X X X X X X X X X X X X X X X X X X	Chlorovitios	3 3		< ×				The state of the s		0		
dehyde NA X X NA X X A-Dichlorophenoxyacetic acid} NA X X	Coumaphos	¥ Z	militario de Carilles	×	····				; • -	0		
A-Dichlorophenoxyacetic acid) NA X A-Dichlorophenoxyacetic acid) NA X NA X Seli NA X S	Cresol	Ž 3		××						o . c		
A-Dichlorophenoxyacetic acid) NA X Solid S	Cyclohexane	Z	×						*	0		
aniine NA X NA X NA X NA X NO NA X NA X NA X NA X NA X NA X NA X NA X	2,4-D (2,4-Dichlorophenoxyacetic acid)	≨ :		×i				•		0		
e lorgopropionic acid NA X X X X X X X X X X X X X X X X X X	Diazinon	¥ ¥	•	××			:		ļ	.,		
ioropropionic acid NA X X X X X X X X X X X X X X X X X X	Dichlobenil	2	, .	×					· · · · · · · · · · · · · · · · · · ·	0		-
vioreproprionic acid NA X X X X X X X X X X X X X X X X X X	Dichlone	ž		×		na neriba				0		
enzene NA X X X X X X X X X X X X X X X X X X	2,2-Dichloropropionic acid	4 2 2 2	-	××	·					9 0		
enzene NA X NA X ON NA X Obydzin NA X X NA X Obydzin NA X X	Diethyl amine	×	:	×						0		
on NA X NA X On NA X Onydrin NA X NA X	Dimethyl amine	Ž	: : : :	×	· ·					•		
on NA X X Ohydrin NA X X	Dinitrobenzene	ž	~ * ~	×						0 0		
NA X	Diquat	\$ \$		×		ved more	i	1		0		
W X	Diuron	Ž	1	×					**	0		
	Epichlorohydrin	N.		×						٥		

Long-term averages not calculated if only one result is reported.

30-day values not calculated for pollutants monitored on a monthly or less frequent basis.

Concentration and mass values of "O" indicate results below detection limit.

Attachment 2C-3: Effluent Characteristics DSN 001

		MARK "X"					EFFLUENT				5	UNITS
POLLUTANT	Testing Required	Believed	Believed Absent	Max. Daily Conc.	Max. Daily Mass	Max. 30 Day Conc.	Max. 30 Day Mass	Max. Daily Max. 30 Day Max. 30 Day Long Term Long Term Mass Conc. Mass Avg. Conc. Avg. Mass	Long Term Avg. Mass	No. of Analyses	Conc. Units	Mass Units
Ethion	٧Z		×							0		
Ethylene diamine	ž	×										1
Ethylene dibromide	ž		×				•			0	1	:
formaldehyde	ž	×		0	0				•		mg/L	veb/dl
Furfural	ž	,	×							0	1	
Guthion	ď		×				•			0		
Isoprene	ž	. ,	×									
sopropanolamine	Š		×						•	0	***	
Kelthane	¥ Z		×				k	_		0		:
Kepone	¥	:	×							•		
Malathion	ž		×				•••••••••••••••••••••••••••••••••••••••			0		1
Mercaptodimethur	ž		×		*	*	*****					
Methoxychlor	₹		×	0	٥						mg/1	ib/day
Methyl mercaptan	ž		×		4					0		
Methyl methacrylate	ž	×								0		
Methyl parathion	ž		×			:			•	0		
Mevinphos	ž	•	×			•			*	0	***	
Mexacarbate	ž		×						•	0		
Monoethyl amine	ž	•	×		.	*****				0		
Monomethylamine	ž	×	-		-	****		,				
Naled	Š		×		:				• • • • • • • • • • • • • • • • • • • •	0		
Napthenic acid	ž	•	×		*		•			0		:
Nitrotoluene	₹Z		×							0		
Parathion	¥	•	×	·					•	0		
Phenoisulfonate	ž	×								0		
Phosgene	¥	×		0	٥					- 1	mg/L	1b/day
Propargite	¥		×						•	0		
Propylene oxide	ž	•	×							0		
Pyrethrins	ž	•	×				a, a chance of	4		0		
Quinoline	ž	•	×							0		
Resorcinol	ž	•	×		:					0		
Strontium	ž		×					:		0	:	
Styrene	ž	×	The second second second					,	1	0		
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	ž		×							0		
TDE (Tetrachlorodiphenyl ethane)			×		***************************************					0		
2.4,5-TP [2-(2,4,5-Trichlorophenoxy) propanoic acid]	ž	•	×							0		
Trichlorofon	ž		×			:				0		
Triethanolamine	ž		×			Maragai				0		
Triethylamine	₹	×	The second second	0	•	ng conside	n 1	!		-	mg/L	lb/day
Trimethylamine	¥.		×							0		
Uranium	ž		×							0:		
Vanadium	≨	٠	×				•		•	0		
Vinylacetate	ž	× :							!	O		
Xylene	<u>ح</u>	×								0		
Xylenol	ž		×						•	0		
Zirconium	¥		×							0		

Long term averages not calculated if only one result is reported.

30-day values not calculated for pollutants monitored on a monthly or less frequent basis.

Concentration and mass values of "0" indicate results below detection limit

ATTACHMENT 2C-4

EFFLUENT CHARACTERIZATION - PERFLUOROALKYL AND POLYFLUOROALKYL SUBSTANCES (PFAS)

A. PFAS MONITORING SUMMARY

The current permit requires quarterly monitoring for the following eleven perfluoroalkyl substances at outfalls DSN001Q-DSN012Q.

Compound Name	Acronym	Size	CAS
N-ethyl	N-EtFOSAA	C8	2991-50-6
perfluorooctanesulfonamidoacetic acid*			
N-methyl	N-MeFOSAA	C8	2355-31-9
perfluorooctanesulfonamidoacetic acid*			
Perfluorobutanoic acid	PFBA	C4	375-22-4
Perfluorobutanesulfonic acid	PFBS	C4	375-73-5
Perfluorobutane sulfonamide	PFBSA	C4	30334-69-1
Perfluoroheptanoic acid*	PFHpA	C7	375-85-9
Perfluorohexanoic acid*	PFHxA	C6	307-24-4
Perfluorohexanesulfonic acid*	PFHxS	C6	355-46-4
Perfluorooctanoic acid*	PFOA	C8	335-67-1
Perfluorooctanesulfonic acid*	PFOS	C8	1763-23-1
Perfluorooctanesulfonamide*	PFOSA	C8	754-91-6

^{*}Chemicals associated with former production activities phased out by 2002

The attached Table 1 summarizes the results of the quarterly monitoring from the first quarter 2015 through the first quarter 2018.

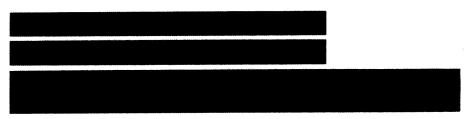
B. PFAS ASSOCIATED WITH CURRENT PRODUCTION OPERATIONS

Current manufacturing operations at the Decatur facility that are expected to produce wastewater containing perfluoroalkyl and polyfluoroalkyl substances (PFAS) are as follows:

1. Plastics Manufacturing



- 2. Fluoroelastomer production
- 3. Curatives production, a specialty chemical
- 4. Perfluorobutane sulfonyl fluoride-based (PBSF) production, also known collectively as "C4 Production"



• PBSF-based curatives production

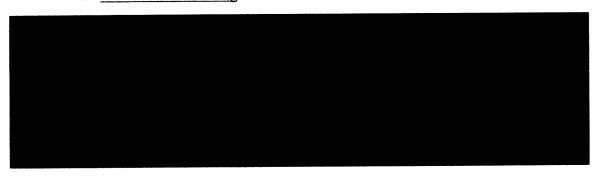
Like most of the processes in the non-Film Manufacturing operations at Decatur, the plant's PFAS operations are primarily batch processes. The nature of batch chemical processing means that any wastewater discharges occur only intermittently. Further, as demand and production levels vary across the entire Decatur plant, the mass and concentration in the plant's effluent of PFAS and other constituents will vary.

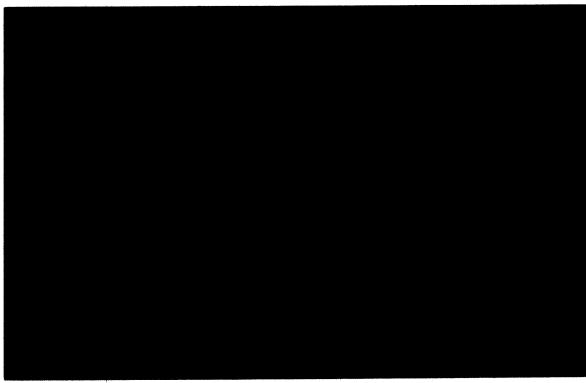
The production processes outlined above are associated with the manufacturing operations previously described in Attachment A of this NPDES permit application. The Film Manufacturing and Resin manufacturing operations are not currently believed to generate or contribute any PFAS to the effluent discharge water.

Each of the above processes that has potential PFAS contributions to wastewater discharging to the chemical sewer, and ultimately from outfall DSN001, is described in more detail below. These wastewaters are not expected to discharge through any other permitted outfalls (i.e., the storm water outfalls). As discussed below, wastewater from primary amide production is subject to a TSCA zero discharge consent order and is not discharged to the chemical sewer.

As information currently allows, specific PFAS chemical identities are provided. When specific chemical identities are uncertain, chemical families associated with these processes are provided.

1. Plastics Manufacturing





The wash water from PVDF resin production is discharged to a sump where it may mix with wastewater from monomer production. From there, the wastewater flows to the Site's Wastewater Treatment system. Like the monomer production, resin production wastewater can contain VDF oligomers, a C3 carboxylate and perfluoropropionic acid.

2. Fluoroelastomer production

Elastomer manufacturing includes the production of fluoroelastomers using	reactions.

The environmental stewardship for 3M Decatur's manufacturing operations includes ongoing efforts to identify sources of chemical discharges and reduce, treat or eliminate them. where feasible. This includes those from fluorochemical production. This stewardship activity identified the fluoroelastomer wash water as a source that could be reduced through treatment. As part of the resulting fluoroelastomer wash water source reduction project, the feasibility of treating this wastewater stream with granular activated carbon (GAC) was evaluated both in the laboratory and at a pilot-scale facility. Analytical characterization was conducted on the untreated wash water stream, as well as on the carbon treated water. The data report for the project is enclosed with this NPDES permit application. (See Attachment 2C-5). As a result, 3M decided to install a GAC system to treat and remove PFAS from the elastomer wash water before discharge to the chemical sewer. This project is anticipated to be operational in the second quarter of 2019. 3. Curatives production

The Decatur plant also manufactures, uses, and sells curatives.

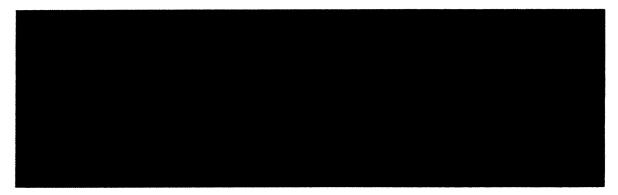
Wastewater from these activities is discharged to the chemical sewer.

poor water solubility and the production volumes are limited, curative production is not expected to be a significant PFAS source. 4. Perfluorobutane sulfonyl fluoride-based production Perfluorobutane sulfonyl fluoride (PBSF)-based production, also referred to as C-4 based production, includes a variety of production activities, PBSF-based production wastewater may contain PFAS. All water streams from primary amide production are captured, drummed and sent offsite for disposal.

Because the curatives have generally

2. Planned wastewater treatment outlet granular activated carbon treatment system

In addition to the fluoroelastomer wash water pre-treatment GAC system noted above, 3M will install a second granular activated carbon treatment system, with this one installed on the wastewater treatment plant outlet. This system is planned to be operational in 2019.



Attachment 2C-4: Table 1 Summary of Quarterly Outfall PFAS Analytical Results (1Q 2015 - 1Q 2018) DSN 001

ng/mL	2/10/2015	4/20/15	8/13/15	1	` `	5/19/16	9/11/16	12/9/16	3/6/17	5/11/17	8/7/17	10/18/17	3/10/18
PFBA	1.31	3.59	3.35	1		1.61	4.35	2.4	5.17	2.81	4.03	0.969	1.52
PFHpA	69.0	1.85	8.89	1.01	1.13	0.482	0.534	2.42	0.714	0.473	1.16	0.677	0.536
PFHxA	1.39	1.08	0.673		!	0.185	0.241	1.58	0.414	0.252	969.0	0.332	0.335
PFOA	2.74	5.17	2.47	1		0.609	0.787	7.08	1.64	0.932	2.52	1.30	1.50
PFBS	4.63	12.5	7.46			6.35	7.52	9.1	10.1	7.43	47.8	1.72	7.24
PFHS	0.826	1.86	0.528	1		0.254	0.266	1.72	0.654	0.442	2.13	0.563	0.45
PFOS	17.5	14.8	7.93			1.74	1.87	14.8	5.02	5.29	8.23	3.97	4.10
FBSA	78.1	87.4	180		1	207	285	75.8	193	352	92.3	45.0	71.2
PFOSA	2.52	4.02	1.69			1.38	0.950	3.18	0.923	0.969	0.539	0.623	0.890
NMeFOSAA	1.48	2.12	1.42			0.432	0.351	1.20	0.648	0.737	1.38	0.856	0.468
NEtFOSAA	2.06	2.11	1.21			0.405	0.428	1.28	0.711	0.537	1.05	0.647	0.427

Summary of Quarterly Outfall PFAS Analytical Results (1Q 2015 - 1Q 2018) DSN 002 Attachment 2C-4: Table 1

ng/mL	2/1/2015	L.	7/29/15	10/26/15	2/2/16	5/12/16		11/30/16	3/7/17	4/30/17	7/28/17	10/8/17	3/10/18
PFBA	0.0293		0.130	0.0429	0.0570	3.7900		0.0791	<0.100	<0.0500	0.1980	0.176	2.94
PFHxA	0.0507		0.0915	0.0331	0.0523	0.563		<0.0250	<0.0250	<0.0250	<0.0500	<0.0500	6.94
PFHpA	<0.0250		0.0868	<0.0250	<0.0500	0.659	-	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	13.7
PFOA	<0.0480		0.226	0.203	0.0978	4.47		0.035	<0.0240	<0.0240	0.0267	0.0307	56.4
PFBS	0.0612		0.166	0.0616	0.0862	2.62		0.147	<0.0250	0.0692	0.106	0.0635	1.28
PFHS	<0.0250	•	0.0918	<0.0236	<0.0250	0.76	1	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	5.62
PFOS	0.0848		0.359	0.198	0.120	18.5		0.0989	0.0275	0.0655	0.148	0.104	72.2
FBSA	0.387		0.274	0.125	0.299	2.63		0.110 *	0.100	0.180	0.108	0.447	0.629
PFOSA	0.133		0.143	0.0537	0.0785	15.2		0.0652	0.0402	0.122	0.0351	0.0563	8,34
NMeFOSAA	0.0266	٧	0.0681	<0.0250	<0.0500	6.23		<0.0250	<0.0250	<0.0500	<0.0500	<0.0250	3.65
NEtFOSAA	0.0376	0.177	0.0854	0.0382	0.0404	11.7	0.0448	<0.0250	<0.0250	<0.0250	<0.0250	<0.0500	4.16
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* Qualitative result due to non-compliant QC	ult due to nor	n-compliant	ဗ			†	<u> </u>	readjusted a company was company and made and made		**************************************	:		The section of American

Summary of Quarterly Outfall PFAS Analytical Results (1Q 2015 - 1Q 2018) DSN 003 Attachment 2C-4: Table 1

	:/1/2015	5/16/15	7/29/15	10/26/15	2/2/16	5/12/16	8/18/16	11/30/16	3/7/17	4/30/17	7/28/17	10/8/17	(1)
	0.486	2.96	0.174	3.37	0.208	3.75	7.02	2.19	3.37	1.96	2.21	3.23	0.299
	0.754	0.798	0.112	0.642	0.378	0.576	0.872	0.742	0.681	1.11	0.933	1.26	
	0.536	0.861	0.184	0.585	0.241	0.670	1.09	0.973	0.742	1.30	1.50	1.76	
	2.00	6.17	0.857	4.69	1.43	4.54	7.75	7.57	5.19	10.9	10.4	11.9	
	2.30	3.04	0.613	1.73	0.667	2.73	3.17	3.43	1.32	2.58	3.51	3.23	
PFHS	1.16	1.76	0.137	0.94	0.253	0.824	0.894	1.43	0.993	1.27	1.89	1.43	:
	7.59	17.4	4.97	15.6	7.48	18.3	33.4	22.2	9.99	26.000	28.4	20.3	
	6.15	4.39	1.47	1.68	1.55	2.57	1.67	2.18	1.68	5.53	1.90	5.73	
	0.589	6.64	2.61	2.89	0.825	6.32	6.92	2.76	2.32	6.71	5.04	4.6	
<	0.454	3.83	1.34	2.72	0.741	6.56	5.79	3.03	1.97	3.32	3.96	3.80	
	0.671	6.63	2.89	8.34	1.42	12.6	12.5	3.60	4.17	4.79	4.42	5.41	i

Attachment 2C-4: Table 1
Summary of Quarterly Outfall PFAS Analytical Results
(1Q 2015 - 1Q 2018)
DSN 004

ng/mL	2/1/2015	5/16/15	7/29/15	10/26/15	2/2/16	5/12/16	8/18/16	-	1	4/30/17	7/28/17	10/8/17	3/10/18
PFBA	13.7	13.0	64.2		12.7	12.6	12.6	6.52	11.0	35.3	0.169	22.0	21.3
PFHxA	8.43	4.41	16.0		5.12	15.8	3.83			15.1	0.157	11.3	4.29
PFHpA	6.97	3,83	13.7		3.93	8.76	3.93			7.88	0.272	9.37	3.87
PFOA	52.0	28.2	102		30.2	36.9	27.6			48.8	1.21	93.8	25.1
PFBS	64.9	34.0	145		43.9	11.5	18.9			425	0.0813	42.4	120
PFHS	5.21	3.89	99.6	8.12	3.29	18.9	5.52			11.3	0.269	18.2	4.41
PFOS	46.2	43.0	103		52.2	75.5	84.4			80.1	5.69	143	38.8
FBSA	122	64.6	183		98.7	49.8	50.8			282	0.0762	370	431
PFOSA	45.0	39.4	44.3		35.0	17.2	24.0			29.9	1.45	24.9	38.9
NMeFOSAA	12.5	18.1	19.3		16.5	6.92	20.5			23.5	0.668	15.3	7.62
NEtFOSAA	21.1	18.0	19.1		26.3	6.01	25.6			22.8	2.08	23.7	11.8

Summary of Quarterly Outfall PFAS Analytical Results (1Q 2015 - 1Q 2018) DSN 005 Attachment 2C-4: Table 1

ng/mL	2/1/2015 5/16/15	5/16/15	7/29/15	10/26/15	3/14/16	5/12/16	11/30/16	2/28/17	5/4/17	7/28/17	12/20/17	3/10/18
PFBA	25.0	11.4	4.10	5.15	1.45	6.48		3.13	8.8		62.1	23.5
PFHxA	30.4	13.7	3.93	3.19	2.45	4.61	2.78	2.35	4.36	2.07	6.13	29.3
PFHpA	14.0	7.00	1.08	1.69	2.56	2.67		2.27	2.90	2.67	8.33	16.2
PFOA	62.3	34.7	4.74	11.2	16.9	12.2		16	20.9	16.1	39.3	70.4
PFBS	7.16	6.61	8.96	7.72	1.49	6.39		2.95	6.29	6.08	173	10.5
PFHS	37.4	14.9	1.73	3.01	1.31	5.25		1.11	1.81	1.66	3.08	36.0
PFOS	107	62.5	19.9	22.8	48.8	28.8		67.0	86.2	47.1	65.3	111
FBSA	9.84	9.17	200	16.7	7.32	23.2		11.6	19.2	8.16	97.6	6.81
PFOSA	3.77	98.9	3.22	90.9	23.3	19.3		42.1	54.5	22.7	26.9	7,47
NMeFOSAA	1.90	3.80	4.73	4.06	59.5	9.68		163	135	41.4	85.3	1.49
NEtFOSAA	4.16	3.88	5.38	3.78	78.5	6.37		269	183	67.6	175	2.74
		and the			:			1			:	
* Qualitative result due to non-compliant Q	ult due to no	in-complian	t QC		The control of the co	The second secon						

Summary of Quarterly Outfall PFAS Analytical Results (1Q 2015 - 1Q 2018)
DSN 006 Attachment 2C-4: Table 1

ng/ml	2/1/2015	5/16/15	7/29/15	10/26/15	2/2/16	5/12/16	8/18/16	=	3/7/17	4/30/17	7/28/17	10/8/17	m
PFBA	23.9	11.0	4.46		9.34	89.9	4.56		7.35	6.43	3.03	5.86	
PFHxA	29.1	13.2	4.12	3.05	12.1	4.79	2.30	3.18	7.05	5.81	3.96	3.98	1
PFHpA	13.8	68.9	1.31		6.71	2.91	1.60		4.01	2.98	3.14	2.24	
PFOA	58.6	32.6	6.03		29.7	13.2	9.31		18.8	12.9	12.9	11.4	
PFBS	7.02	6.60	8.26		3.90	6.52	10.4		7.22	3.66	2.71	6.42	9.91
PFHS	34.5	14.5	2.12		14.9	5.50	2.70	:	8.82	6.64	6.24	4.36	
PFOS	106	58.8	20.4		58.6	32.8	27.8		30.4	29.3	41.9	25.0	
FBSA	9.77	9.18	186		5.28	23.7	77.7		9.45	8.07	2.23	9.58	
PFOSA	4.04	4.99	3.17		2.93	10.0	11.0		5.49	8.15	99.9	5.57	
NMeFOSAA	2.02	2.90	2.59		1.52	9.42	3.92		3.58	2.26	5.12	2.56	
NETFOSAA	4.50	3.31	4.14		3.18	6.93	6.76		4.05	3.76	9.39	4.00	

Summary of Quarterly Outfall PFAS Analytical Results (1Q 2015 - 1Q 2018) DSN 007 Attachment 2C-4: Table 1

ng/mL	2/1/2015	5/16/15	8/6/15	10/26/15	1/21/16	5/12/16	8/18/16	11/30/16	2/28/17	5/4/17	7/28/17	12/20/17	
PFBA	0.700	1.96	1.04	0.936	0.856	0.668	0.54	0.497	0.327	0.395	0.221	0.449	
PFHxA	2.33	4.65	2.23	2.61	3,14	1.92	1.31	0.726	776.0	1.36	0.104	1.10	
PFHpA	4.29	8.56	4.40	4.82	4.11	3.63	3.04	1.39	1.97	2.96	0.169	2.18	
PFOA	25.9	53.8	28.4	37.9	15.1	21.4	20.2	8.02	14.4	19.5	0.747	12.2	0.0352
PFBS	0.936	1.32	1.13	1.33	0.932	0.768	0.586	0.535	0.517	0.769	0.0839	0.550	
PFHS	4.07	5.55	3.58	3.93	3.96	2.76	1.52	0.475	1.67	2.31	0.179	1.97	
PFOS	84.5	157	83.7	79.4	25.3	68.9	64.6	19.9	0.99	84.5	5.06	50.8	
FBSA	0.400	0.849	0.400	969.0	0.223	0.311	0.296	0.388	0.196	0.269	0.0804	0.171	
PFOSA	3.96	16.2	5.35	3.39	1.45	13.4	5.23	9.62	6.92	6.26	1.07	2.66	
NMeFOSAA	8.47	21.3	6.72	3.36	2.07	7.52	13.2	7.29	16.9	12.0	0.575	5.97	
NEtFOSAA	11.2	19.2	9.02	4.20	3.06	8.08	14.2	8.50	18.2	14.0	2.01	8.55	

Attachment 2C-4: Table 1 Summary of Quarterly Outfall PFAS Analytical Results (1Q 2015 - 1Q 2018) DSN 008

ng/ml	2/16/2015	5/27/15	8/6/15	11/2/15	1/21/16	5/12/16	8/18/16	11/30/16	2/28/17	4/30/17	7/28/17	1,,	3/10/18
PFBA	0.187	<0.0250		0.077	0.0487	0.326	0.202	0.0632	0.319	0.0815	<0.100		0.615
PFHxA	0.407	<0.0250		<0.0250	0.114	0.688	0.273	0.0568	0.474	0.412	0.0556	Ì	2.03
PFHpA	0.555	<0.0250		0.0333	0.200	2.03	0.765	0.0979	0.934	1.33	0.146		3.06
PFOA	2.92	<0.0480	<0.0480	0.301	1.16	10.4	3.77	0.511	5.75	7.88	0.746		12.8
PFBS	0.243	0.0264	<0.0250	<0.0250	0.0407	0.105	<0.0250	0.0369	0.161	0.064	<0.0500		0.426
PFHS	0.274	<0.0250	<0.0236	<0.0236	0.142	0.624	0.138	0.0372	0.262	0.198	0.0697	į	2.14
PFOS	13.4	0.192	0.143	1.35	5.80	23.60	9.13	1.59	7.24	9.50	3.32		25.0
FBSA	0.133	X.	0.0364	0.220	<0.0500	0.145	0.0633	0.0266	0.111	0.0515	<0.0250		0.189
PFOSA	6.27	0.0360	<0.0250	1.75	7.35	132	20.0	0.877	11.9	8.31	1.86		6.75
NMeFOSAA	24.2	<0.0250	<0.0250	8.10	16.4	192	71.3	3.92	39.8	13.8	6.17		20.6
NEtFOSAA	18.1	<0.0250	0.0265	6.24	15.1	119	56.1	3.49	26.4	10.6	5.79	35.8	12.8
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NR = Not Reportable due to non-compliant samp	able due to nor	n-compliant	sample QC.										

Attachment 2C-4: Table 1 Summary of Quarterly Outfall PFAS Analytical Results (1Q 2015 - 1Q 2018)

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ng/mt	2/1/2015	5/27/15	8/6/15	11/2/15	1/21/16	5/12/16	8/18/16	11/30/16	2/28/17	5/4/17	7/28/17	12/20/17	3/10/18
PFBA	BLOQ	2.02	0.0789	<0.0250	<0.0250	<0.0250	<0.0250	0.0886 *	<0.100	<0.0500	0.171	<0.0500	0.491
PFHxA	BLOQ	6.46	0.318	<0.0250	<0.0250	<0.0250	<0.0250	0.0605 *	<0.0250	<0.0250	0.0924	<0.0500	1.51
РҒНрА	810Q	14.9	1.06	<0.0250	<0.0500	<0.0250	<0.0250	0.0463 *	<0.0250	<0.0250	0.137	<0.0500	3.65
PFOA	<0.0480	81.1	17.1	<0.0480	<0.0480	0.0270	<0.0240	0.0503 *	<0.0240	<0.0240	0.579	<0.0480	13.6
PFBS	<0.0250	1.33	<0.0250	<0.0250	<0.0500	<0.0250	<0.0250	0.0586 *	<0.0250	0.0298	<0.0500	<0.0500	0.855
PFHS	вгод	3.96	0.115	<0.0236	<0.0250	<0.0250	<0.0250	0.0460 *	<0.0250	<0.0250	0.0743	<0.0500	1.31
PFOS	0.122	164	40.1	0.202	0.0758	0.0843	0.118	0.186	0.0621	0.101	3.13	0.0719	12.2
FBSA	0.0717	0.568	0.0615	0.0591	<0.0500	0.0407 *	0.0297 *	0.106 *	<0.0250	0.0304	0.0388	0.0387	0.610
PFOSA	0.0570	98.5	44.8	0.0415	<0.0250	0.0516	0.0693	* 0060.0	0.0296	0.0314	0.656	<0.0250	2.58
NMeFOSAA	0.174	249	236	<0.0250	<0.0500	0.0534	0.0577	0.0924 *	0.0295	<0.0500	0.291	<0.0250	1.19
NEtFOSAA	0.121	145	161	<0.0250	<0.0250	<0.0250	0.0552	0.0564 *	0.0258	<0.0250	0.707	<0.0250	1.40
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BLOQ = Below Limit of Quantitation	Limit of Quantil	ation.						•	•	,			
* Qualitative re	Qualitative result due to non-compliant QC	ı-compliant	σc										

Summary of Quarterly Outfall PFAS Analytical Results (1Q 2015 - 1Q 2018)

DSN 011 Attachment 2C-4: Table 1

ng/mL	2/1/2015	5/27/15	8/6/15	7	1/21/16	12	8/18/16	17	2/28/17	5/4/17	7/28/17	10/8/17	3/10/18
PFBA	0.0319	<0.0250	<0.0500		0.0986		0.0927	_	<0.100	<0.0500	0.338	<0.100	0.444
PFHXA	0.0565	<0.0250	0.0356		0.287		0.0906	_	<0.0250	<0.0250	0.0969	<0.0250	1.34
PFHpA	0.0583	<0.0250	0.0330		1.06		0.109	_	<0.0250	<0.0250	0.111	<0.0250	3.34
PFOA	0.405	0.138	0.146		8.70		0.645		0.0978	0.0510	0.507	0.0388	11.6
PFBS	0.0761	0.0962	0.169		0.0846	0.170	0.107	0.0898	2.76	0.685	<0.0500	0.185	0.784
PFHS	0.0445	0.0411	0.0329		0.857		0.150		<0.0250	<0.0250	0.0555	<0.0250	1.16
PFOS	1.87	1.38	0.990		17.4		4.96		0.848	0.796	2.37	0.531	10.8
FBSA	0.213	ž	0.105		0.0773		0.107 *		0.637	0.455	0.0322	0.135	0.573
PFOSA	0.236	0.258	0.0826		0.650		0.532		0.316	0.407	0.489	<0.0250	2.18
NMeFOSAA	0.402	0.346	0.0407		1.63		0.157	A numerous	0.789	0.0867	0.195	<0.0250	0.988
NEtFOSAA	0.407	0.296	0.0604	<0.0250	1.51		0.350		0.644	0.175	0.467	<0.0250	1.26
					.i	*				•		1	
NR = Not Reportable due to non-compliant sample QC	able due to n	on-compliar	nt sample C	پر	- 1	•					: :		
* Qualitative result due to non-compliant QC	ult due to no	n-compliant	. OC									-	

Summary of Quarterly Outfall PFAS Analytical Results (1Q 2015 - 1Q 2018) DSN 012 Attachment 2C-4: Table 1

ng/mL	2/16/2015	5/27/15	7/29/15	1	1	5/12/16	8/18/16		2/28/17	4/30/17	7/28/17	10/8/17	3/10/18
PFBA	0.0896	0.366	<0.0500			<0.0250	<0.0250			<0.0500	0.156	0.550	0.562
PFHxA	0.0660		<0.0250			<0.0250	<0.0250			<0.0250	<0.0500	0.348	0.546
PFHpA	0.0922	0.199	0.0288	1		<0.0250	<0.0250			<0.0250	0.0412	0.293	0.622
PFOA	0.0971		0.176	ł		0.0851	0.0383			0.0457	0.212	1.24	2.01
PFBS	0.0700		0.0782	<0.0250	<0.0500	0.0323	<0.0250			<0.0250	<0.0500	0.0889	0.117
PFHS	0.0858	0.155	<0.0236			<0.0250	<0.0250			<0.0250	<0.0250	0.145	0.280
PFOS	0.503		0.454			0.495	0.348			0.336	1.43	4.41	6.44
FBSA	0.196	N.	0.430	1		0.0409 *	* 9650.0			0.0336	0.0320	0.0543	0.107
PFOSA	0.109		0.218			0.235	0.110			0.244	0.264	1.68	2.85
NMeFOSAA	0.0704	0.676	0.0889		- 2	0.0694	<0.0250			0.0482	0.0982	1.06	1.34
NEtFOSAA	0.0909	0.450	0.079	- 1		0.106	0.0293	1.79		0.0516	0.247	1.78	1.75
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NR = Not Reportable	D'e												
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Please print or type in the unshaded areas only

FORM

NPDES

Outfall Location

Form Approved OMB No. 2040-0086 Approval expires 5-31-92

U.S. Environmental Protection Agency Washington, DC 20460

Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources. gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW. Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. Outfall Number (list)	8.	. Latitude			C. Longitude		D Receiving W (<i>name</i>)	ater	
See Attachment									
P=1 for Outfall									
.coation:									****************
									-
. Improvements									
treatment equipme to, permit condition	ent or practices ones, administrativ	or any other	environme nent orden	ntal programs	s which may a	iffect the disch	hedule for the construction, upgrading of narges described in this application? This ers, stipulations, court orders, and grant	includes, but is or loan condition	not limited is. 'inal
Identification of Gareements,		пиmber	T 6/	ource of disch	22108		3. Brief Description of Project	a. req.	b. proj
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B: You may attach ad way or which you p	ditional sheets o	describing an hether each p	y additiona program is	al water pollu now under w	tion (or other	environmental	I projects which may affect your discharge your actual or planned schedules for cor	es) you now hav	re under

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage of disposal of significant materials, each existing structural control measure

to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which received storm water discharges from the facility.

Refer to Figure 2F-2 and Attachment 2F-2

V. Narrati	ve Description of Pollutan	t Sources			
			es (including pa	ived areas and building roofs) drained to the outfall, and an	estimate of the total surface area
	by the outless.				
Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)	Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)
	See Figure 2F-2				
L		L	<u> </u>		
B. Provide	a namative description of significant water method of treatment, storage	materials that are currently o	or in the past t event material	three years have been treated, stored or disposed in is management practices employed to minimize cor	a manner to allow exposure stact by these materials with
storm w	ater runoff; materials loading and ac	cess areas, and the location	n, manner, ar	nd frequency in which pesticides, herbicides, soil co	nditioners, and fertilizers are
applied.					
See Attach	ment 2F-3				

C. For eac	ch outfall, provide the location and tion of the treetment the storm water	a description of existing structures, including the sch	uctural and no	onstructural control measures to reduce pollutants se of maintenance for control and treatment measur	in storm water runoff; and a as and the ultimate disposal
	solid or fluid wastes other than by dis		occio and typ	NO OF 11 WHILE STORE SELECTION STORE OF THE PARTY OF THE	
Outfall		_			List Codes from Table 2F-1
Number SN	All outfalls are covered	·	reatment		180e 2F-1
003-006	All have gated structures	that can be closed to	o contain	spills	
SN 002 6		and loading & unload	ing) & DSN	007-012 (non-production areas) are	
007-012 DSN 013	regularly inspected. Stormwater discharges to	an infiltration pond,	which is	regularly inspected	
		-		-	
/. Nonsto	rmwater Discharges				
A. I certify	under penalty of law hat the outfall	(s) covered by this application	on have been	tested or evaluated for the presence of nonstormw	ater discharges, and that all
			n accompany	ing Form 2C or From 2E application for the outfall.	la Cianad
Name and O	fficial Title (type or print)	Signature/			te Signed
41chelle H	lowell	11/1 6.1	\mathbb{A}^{\times}	Callarii IM	(12) 118
		11 Contract		X X V SCHILL	1911 3
				nage points that were directly observed during a test regularly. There have been no observed	
	Outfall DSN006. This outfal				
// Cinnifi	cant Leaks or Spills				
	······································			to an horsestory and death of the feether in the bas	t three years including the
	kisting information regarding the hi its date and location of the spill or le			ic or hazardous poliutants at the facility in the las eleased.	A tree years, mouthing the
ee Attachi	ment 2F-4				
					•

Continued from Page 2

EPA ID Number (copy from Item 1 of Form 1) AL0000205

VII. Discharge Information			
	oceeding. Complete one set of tables for each outfell, re included on separate sheets numbers VII-1 and VII-		space provided.
	analysis – is any toxic pollutant listed in table 2F-2, armediate or final product or byproduct?	2F-3, or 2F-4, a substance or a	component of a substance which you
Yes (list all such pollutants t		No (go to Section IX)	
See Attachment 2C-4 for a summary 011, and 012 (first quarter 2015	of quarterly NPDES permit testing for through first quarter 2018)	perfluoroalkyl substances	for outfalls DEN 002-009,
Mil District Toulett Touten	2-4-		
VIII. Biological Toxicity Testing I	Data believe that any biological test for acute or chronic to	inity has been made on any of you	ella harra de la companya de la comp
relation to your discharge within the last 3	years?		r discharges or on a receiving water in
Yes (list all such pollutants b	ewow; as conducted at outfall 001 in accordance	No (go to Section IX));irements
IX. Contract Analysis Information	n		
Were any of the analyses reported in Item	VII performed by a contract laboratory or consulting flu	m?	•
Yes (list the name, address, analyzed by, each such	and telephone number of, and pollutants laboratory or firm below)	No (go to Section X)	
A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed
Enersolv (performs sampling)	2220 Beltline Road Decatur, AL 35601	(256) 350-0846	All NPDES Form 2F parameters
Pace Analytical (sample analysis)	1800 Elm Street SE Minneapolis, MN 55414	(612) 607-6400	All NPDES form 2F parameters except for PFAS
X. Certification			
that qualified personnel properly gather and directly responsible for gathering the information of the control	ument and all attachments were prepared under my of d evaluate the information submitted. Based on my in mation, the information submitted is, to the best of n g false information, including the possibility of fine and	quiry of the person or persons who ny knowledge and belief, true, acc	menage the system or those persons urate, and complete. I am aware that
A. Name & Official Title (Type Or Print)	[8	B. Area Code and Phone No.	
Michelle Howell	. 1	(256) 552-6300	,
C. Siggature	1	08/28/2018	
EPA Form 3510-2F (1-92)	Page 3 of 3	, ,	

VII. Discharge information (Continued from page 3 of Form 2F)

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

	1	um Values ude units)		rage Values clude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants

Oil and Grease

Biological Oxygen Demand (BOD5) Chemical Oxygen Demand (COD) Total Suspended Solids (TSS) Total Nitrogen

See Attachment 2F-5. Results for DSN 002, 003, 004, 005, 006, 007, 008, 009, 011, and 012 only are included in this application. Sampling of DSN 010 and 013 has not been possible due to no flow at these locations.

Total Phosphorus

pН

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

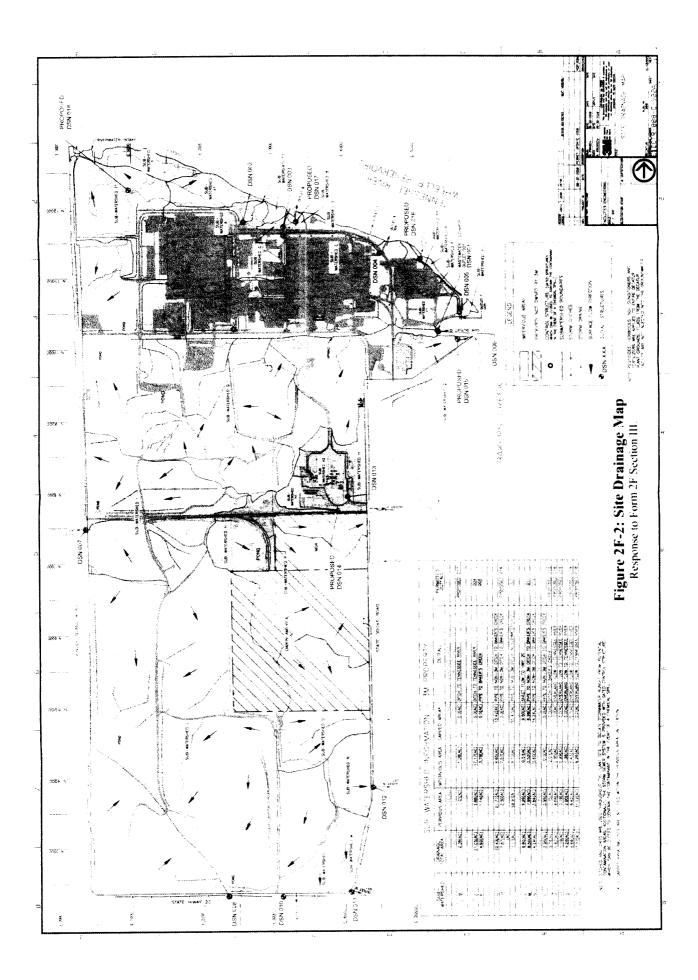
		ium Values ude units)		erage Values clude units)	Number	
Pollutant and CAS Number	Grab Sample Taken During First 20	Flow-Weighted	Grab Sample Taken During First 20	Flow-Weighted	of Storm Events	
(if available)	Minutes	Composite	Minutes	Composite	Sampled	Sources of Pollutants

See Attachment 2F-5.

1	Maximu	one table for each ou m Values le units)	Aver	age Values lude units)	Number	
Pollutant and S Number	Grab Sample Taken During First 20	Flow-Weighted	Grab Sample Taken During First 20	Flow-Weighted	of Storm Events Sampled	Sources of Pollutants
available)	Minutes	Composite	Minutes	Composite	Sampled	Sources of Foliations
			See Att	achment 2F	- 5.	
•						
	•					
	•					
rt D — Pi	ovide data for the st	orm event(s) which re	sulted in the maxim	um values for the flow w	eighted composite sam	ple.
				4.	5.	
1.	2.	3.		4. Number of hours between the storm means to be storm to be	veen Maximum flow asured rain ev	rate during 6. vent Total flow from
1. Date of Storm	2. Duration of Storm Event	3. Total ra during sto	ainfall rm event	4. Number of hours between the beginning of storm mea and end of previous	veen Maximum flow rain exis (gallons/m	rate during 6. vent Total flow from rain event
1. Date of Storm Event	2. Duration	3. Total ra	ainfall rm event	4. Number of hours between the storm means to be storm to be	veen Maximum flow rain exis (gallons/m	rate during 6. vent Total flow from rain event
1. Date of Storm Event	2. Duration of Storm Event	3. Total ra during sto	ainfall rm event	4. Number of hours between the beginning of storm mea and end of previous	veen Maximum flow rain exis (gallons/m	rate during 6. vent Total flow from rain event
1. Date of Storm	2. Duration of Storm Event	3. Total ra during sto	ainfall rm event	4. Number of hours between the beginning of storm mea and end of previous	veen Maximum flow rain exis (gallons/m	rate during 6. vent Total flow from rain event
1. Date of Storm Event	2. Duration of Storm Event	3. Total ra during sto	ainfall rm event	4. Number of hours between the beginning of storm mea and end of previous	veen Maximum flow rain exis (gallons/m	rate during 6. vent Total flow from rain event
1. Date of Storm Event	2. Duration of Storm Event	3. Total ra during sto	ainfall rm event	4. Number of hours between the beginning of storm mea and end of previous	veen Maximum flow rain exis (gallons/m	rate during 6. vent Total flow from rain event
1. Date of Storm Event	2. Duration of Storm Event	3. Total ra during sto	ainfall rm event	4. Number of hours between the beginning of storm mea and end of previous	veen Maximum flow rain exis (gallons/m	rate during 6. vent Total flow from rain event
1. Date of Storm Event yet axlable	2. Duration of Storm Event (in minutes)	3. Total raduring sto (in inc	einfall rm event thes)	4. Number of hours betv beginning of storm mes and end of previou measurable rain evo	veen Maximum flow rain evis (gallons/m specify	rate during 6. vent Total flow from rain event

Attachment 2F-1: Regulated Outfalls Response to Form 2F Section I.

Outfall Number	Latitude	Longitude	Receiving Water	Notes
DSN 002	34.645813	-87.044169	Tennessee River	
DSN 003	34.645570	-87.042325	Tennessee River	
DSN 004	34.644487	-87.037799	Tennessee River	
DSN 005	34.642267	-87.034101	Baker's Creek	
DSN 006	34.641380	-87.035114	Baker's Creek	
DSN 007	34.634057	-87.051786	Unnamed Tributary to Baker's Creek	Request to remove from permit -no longer any industrial activities in this sub-watershed
DSN 008	34.619805	-87.045471	Unnamed Tributary to Baker's Creek	Request to remove from permit –no longer any industrial activities in this sub-watershed
DSN 009	34.619905	-87.051523	Unnamed Tributary to Baker's Creek	Request to remove from permit – no longer receives flow from 3M property
DSN 010	34.619760	-87.042919	Unnamed Tributary to Baker's Creek	Request to remove from permit – no longer any industrial activities in this sub-watershed
DSN 011	34.619855	-87.039644	Unnamed Tributary to Baker's Creek	Request to remove from permit -no longer any industrial activities in this sub-watershed
DSN 012	34.623909	-87.038602	Unnamed Tributary to Baker's Creek	Request to remove from permit –no longer any industrial activities in this sub-watershed
DSN 013	34.635025	-87.039484	Unnamed Tributary to Baker's Creek	
Outlet H1 (Proposed DSN 014)	34.634537	-87.039946	Unnamed Tributary to Baker's Creek	Request to add to permit
Outlet Q (Proposed DSN 015)	34.641101	-87.034215	Tennessee River	Request to add to permit
Outlet R (Proposed DSN 016)	34.644233	-87.035877	Tennessee River	Request to add to permit
Outlet B (Proposed DSN 017)	34.645700	-87.041800	Tennessee River	Request to add to permit
Outlet T1 (Proposed DSN 018)	34.647100	-87.049500	Tennessee River	Request to add to permit



Attachment 2F-2: Description of Sub-watersheds and Outfalls

Response to Form 2F Section III.

Note: In general, changes to the sub-watersheds and outfalls are a result of ongoing capping activities in the south fields, various plant-related construction projects and an updated site-wide topographic map with a 1-foot contour interval developed using aerial imagery and photogrammetry.

Sub-watershed A

Outlet A - Outfall DSN 002

This outfall is located in the northwest portion of the plant. Discharge from this area is through a 48-inch x 32-inch elliptical pipe. The industrial activity in this area includes material storage in silos and loading/unloading. The discharge from this area is covered under storm water regulations.

Sub-watershed A1

Outlet A1

This sub-watershed was newly delineated as a result of higher resolution topographic maps since the last permit renewal. No industrial activity takes place in this sub-watershed and discharge from this area is to the Tennessee River via sheet flow.

Sub-watershed B

Outlet B - Proposed Outfall DSN 017

This watershed has been newly delineated since the last permit renewal to encompass areas with industrial activity. Industrial activity in this area includes loading/unloading, material storage, and rail car storage. Discharge from this area is through a 24-inch culvert. The discharge from this area is requested to be added to the renewed permit for coverage under storm water regulations.

Sub-watershed C

Outlet C - Outfall DSN 003

This outfall is located in the northern portion of the facility. The industrial activity in this area includes a boneyard that stores scrap metal and wood. Runoff from this area discharges to the stormwater outfall. Discharge from this area is through a 36-inch culvert. The discharge from this area is covered under storm water regulations.

Sub-watershed C1

Outlet C1

This sub-watershed was newly delineated as a result of higher resolution topographic maps since the last permit renewal. No industrial activity takes place in this sub-watershed and discharge from this area is to the Tennessee River via sheet flow.

Sub-watershed D

Outlet D

The areas formerly part of sub-watershed D have been newly delineated to be part of sub-watershed T based on higher resolution topographic maps. Outlet D no longer exists.

Sub-watershed E

Outlet E - Outfall DSN 004

This outfall is located in the northeastern portion of the plant. Discharge from this area is through a 48-inch culvert. The industrial activity in this area includes the North, West, and East tank farm

areas, material and drum storage, loading/unloading and a contractor storage area. The discharge from this area is covered under storm water regulations.

Sub-watershed F

Outlet F - Outfall DSN 005

This outfall drains the area around the wastewater treatment plant, which is located east of the facility. Discharge from this area is through a 24-inch culvert. The discharge from this area is covered under storm water regulations.

Sub-watershed F1

Outlet F1

This watershed consists of the areas around the polishing ponds, which are located directly south of the wastewater treatment plant. Runoff from this area is into the polishing ponds. The discharge from the ponds is covered under wastewater regulations under outfall DSN 001A and DSN 001.

Sub-watershed G

Outlet G - Outfall DSN 006

This outfall drains the southern portion of the facility and a large open field area. A spring is located as indicated on the site maps. The outfall is located on the eastern side of the facility. This outfall includes run on from an area west of the facility that is routed onto 3M properties through a 48-inch culvert. The run on consists of storm water runoff from the Indorama facility and from the highway that runs north and south along the western side of 3M's property. Discharge from this outfall is covered under storm water regulations.

Sub-watershed H

Outlet H - Outfall DSN 013

This outfall drains the Plastics Manufacturing area. The activities include above ground storage tanks, drum storage, loading/unloading and railroad tracks. The AST secondary containment discharges to the chemical sewer system with the exception of the DI water and the Calcium Chloride tanks. Stormwater from the overall area discharges to a pond that historically does not discharge off-site. The detention area in Area H-2 contains a concrete weir wall structure that controls the level of the permanent pool and may or may not have overflow during precipitation events that contribute to DSN 013.

Sub-watershed H1

Outlet H1 - Proposed Outfall DSN 014

This outfall drains a small area in the southwest corner of the Plastics Manufacturing area that is not routed to the storm water pond. The activities include material storage, trailer storage, and loading/unloading. The outlet is located south of the drainage area just prior to entering a ditch adjacent to railroad tracks that are not owned by 3M. 3M is requesting this outlet to be added to the renewed permit for coverage under stormwater regulations.

Sub-watersheds I, J, K, L, M, N

Outlets I, J, K, L, M, N - Outfalls DSN 007 through 012

These permitted outfalls historically received runoff from the former sludge incorporation area (FSIA). Going forward, these areas will be maintained as open, vegetated fields. Because stormwater is no longer in contact with the FSIA and there will be no industrial activity in these areas, the outlets no longer require coverage under storm water regulations. Also note, outfall DSN 009 no longer receives flow from the property due to elimination of sub-watershed K as a result of soil excavation activities (capping related) in the southwest corner of the site. 3M requests that these outfalls be removed from the permit.

3M proposes to continue to monitor outfalls DSN 007, DSN 008, DSN 010, DSN 011 and DSN 012 for poly- and perfluoroalkyl substances (PFAS) to evaluate the effectiveness of the multi-layer cap. This monitoring could be incorporated into the NPDES Remedial Action Agreement.

Sub-watershed O and P

Outlets O and P

A portion of sub-watershed O is located on 3M property and was part of the FSIA. The multi-layer cap is currently being constructed over this area. Placement of the 40-mil liner will be completed by the end of 2018. The remainder of sub-watershed O and sub-watershed P drain areas that are not owned by 3M and are therefore not included in this permit application. These sub-watersheds are monitored by a neighboring facility.

Sub-watershed Q

Outlet Q - Proposed Outfall DSN 015

This drainage area is located south of the wastewater treatment facility. 3M recently installed a containment system for storage of hazardous material trailers that would discharge to this outlet. Because of this new activity, 3M is requesting this outlet to be added to the renewed permit for coverage under stormwater regulations.

Sub-watershed R

Outlet R

This drainage area is located on the east side of the facility. Runoff from these areas is routed to the Tennessee River via sheet flow.

Sub-watershed R1

Outlet R1 - Proposed Outfall DSN 016

3M is currently undertaking a project to install a process water treatment system in this area. Because of this new industrial activity, 3M is requesting this outlet to be added to the renewed permit for coverage under stormwater regulations.

Sub-watershed S

Outlet S

This drainage area is located on the north side of the facility. The only activities in this area are railroad tracks. Runoff from these areas is routed to the Tennessee River via sheet flow. Therefore, these areas do not require coverage under storm water regulations.

Sub-watershed T

Outlet T

This sub-watershed was newly delineated as a result of higher resolution topographic maps since the last permit renewal. The water intake structure for the facility is located within this drainage area; however, no discernable discharge point has been observed in the area of the intake structure. Therefore, this area is not covered by stormwater regulations.

Sub-watershed T1

Outlet T1 - Proposed Outfall DSN 018

This drainage area is located on the northwest side of the facility. Recently 3M has modified this drainage area to include a building expansion. These modifications have resulted in the direction of runoff from areas that will contain roadways and manufacturing buildings. No chemicals storage will occur in this area. Because of this new industrial activity, 3M is requesting this outlet to be added to the renewed permit. The outlet is located just northwest of a new stormwater retention basin that accepts flow from roadways and buildings in the sub-watershed.

Attachment 2F-3: Significant Materials Exposure Response to Form 2F Section IV.B.

Outfall	Description
Number	Description
DSN 002	Particulate polyester
DSN 003	Tanks in this area have stormwater going into the chemical sewer system
DSN 004	Listed wastes F002, F003, and F005 north of Bldg. 4.
20	PBSF tanks (out of service)
	Chemical plant tank farm containing acetone, ethyl acetate, and heptane.
	Methylamine tanks located north of Bldg. 41.
	TFE, VF2, propylene tanks east of Bldg. 38, DFE and ethylene oxide cylinders
	Hexafluoropropylene tank southwest of Bldg. 38.
	Ethylene carbonate and methylamine located west of Bldg. 3.
DSN 005	There are various activities associated with the wastewater treatment plant including
	the treatment of wastewater sludge material.
	Lime and phosphoric acid located at the wastewater treatment plant.
	Magnesium oxide tank at wastewater treatment plant
	Sulfuric Acid and Sodium Hydroxide Totes
DSN 006	Used oil storage south of building 13 and east of Bldg. 5.
	Bulk Hazardous waste loading station south of the boiler house
	Hazardous waste drum storage south of Bldg. 19.
	Bldgs. 15 and 74 tank farms located adjacent of each building containing storage for
	methanol and ethylene glycol.
	Kelite solution located north of Bldg. 39.
	Propane tanks west of building 19 and north of Bldg. 20.
	Dimethyl terapthalate tanks located south of Bldg. 15.
	Various Suez chemicals on the south and east side of boilerhouse and Bldg. 76.
	Fuel oil #2 and #6 east of the boilerhouse.
	Fuel oil #2 at building 6, west of building 36, and at the fire test area.
	Fuels in an aboveground tank at the fire test area.
	Propane south of Bldg. 49.
	Gasoline tank located at the hazardous waste tank farm south of Bldg. 5.
DSN 013	Calcium Chloride tank
	Sodium Hydroxide tank north of Bldg. 82
	Polyvinylidene fluoride powders
	Raw material and Hazardous Waste Tanker Storage, Unloading and Loading
	stations
DSN 014	Tanker Parking lot
DSN 015	Hazardous Waste Tankers and Product Tankers Storage location
DSN 016	Diesel fuel oil storage Bldg 36.
	A small amount of stormwater runoff from the wastewater treatment plant
	discharges from this area.
DSN 017	Stationary Storage of Resin
DSN 018	Bldg. 28/29 Parking lot drainage

Attachment 2F-3: Stormwater Management Practices

Response to Form 2F Section IV.B.

- Many of the outside tanks have containment areas or dikes to contain any spilled material.
 Many of these containment areas are piped directly into the wastewater treatment area. Some of the containment areas not piped directly to the wastewater treatment area are checked periodically for leaks.
- 2. Spills from outside storage areas are handled by trained individuals from the emergency response squad. Spill containment items have been set up in various locations throughout the plant and a spill van is available at the fire truck house for mobile use.
- 3. The wastewater facility has access to a vacuum truck that can be used to collect large liquid spills. If a spill occurs to the stormwater, wastewater personnel are also trained to close specified stormwater gates in order to help contain the spill.
- 4. An SPCC plan has been set up for all petroleum based products used. A RCRA contingency plan has been set up for hazardous wastes that are generated and managed.
- 5. Used oil is stored in either buildings or containment areas.
- 6. Stormwater containment pits have been constructed at various locations throughout the plant site. Water is visually checked before being released to the site drainage ditches. At the fire test area, a collection pit is pumped off and released to wastewater.
- Trucks containing spilled material are taken to wastewater and washed out on the cleaning pad. The two drum washing stations and the pipe washing station have concrete containment and are drained to wastewater.
- 8. The hazardous waste tank loading stations have coated concrete containment. The outside hazardous waste drum storage area has a coated containment area. The film plant rail car dock area has its runoff fed to a containment area which is pumped off to wastewater.
- 9. The chemical plant rail unloading station has a containment area. The film plant rail car dock area has its runoff fed to a containment area which is pumped off to wastewater.
- 10. The outside storage, unloading, and containment areas have a daily, weekly, or monthly inspection conducted by plant personnel.
- 11. Stormwater ditches and pools are randomly checked from time to time to detect any unusual conditions of the stormwater.

Attachment 2F-3: Material Loading, Access, and Cleaning Stations

Response to Form 2F Section IV.B.

1.	Bldg 59, 39, 17, 74, 14, 28, and 1 loading docks.
2.	Rail car dock area located north of DMT tanks and south of Bldg. 19 and 15.
3.	Sodium hydroxide unloading east of Bldg 3 and north of Bldg 5.
4.	Used oil drum loading south of Bldg 13 and east of Bldg. 5.
5.	Hazardous waste drum loading south of Bldg. 19.
6.	DMT tank unloading south of Bldg. 15.
7.	Rail car unloading north of Bldg. 5.
8.	Rail car unloading north of chemical plant tank farm.
9.	Tank area loading between Bldg. 3 and 4.
10.	Unloading area for aboveground tanks at wastewater treatment plant and indoor sludge
	loading.
11.	Unloading of fuel oils, gasoline, and aviation fuel at the various tanks located around the
	plant site.
12.	Drum cleaning station and crusher located west of Bldg. 1.
13.	Drum cleaning station located between building 3 and 4.
14.	Loading and unloading station west of Bldg 9.
15.	Loading station east of Bldg. 38.
16.	Subwater shed Q includes trailer staging and access area at parking area east of main gate
	guardhouse.
17.	Truck, drum, tank, and box loading and unloading Plastics Plant north of 84, west of plant,
	and north of 82.
18.	Tanker Unloading Station (Primarily Tank Farm 398).
19.	Wash Pad.
20.	WDF tanker loading station south of Bldg. 5.
	Wash Pad. WDF tanker loading station south of Bldg. 5. Scrap Flake trailer loading area west of Bldg. 14.

Attachment 2F-3: Landscaping Applications Response to Form 2F Section IV.B.

Locations	Frequency
South Fields	
Fertilizers	
17-17-17	l time per year
Lime	1 time every 1 to 2 years
Lesco 25-2-5	2-3 times per year
Pre-emergent	
14-14-14	2-3 times per year
Herbicides	
Roundup Ultra	l time per year
Garlon 3A	12 times per year
Prosecutor (Roundup)	10-15 times per year
Plant Grounds	
Fertilizers	
Lesco 25-2-5	2-3 times per year
Pre-emergent	
14-14-14	2-3 times per year
Herbicides	
Snapshot 2.5	2-3 times per year
Three-way Selective	1-2 times per year
Prosecutor (Roundup)	10-15 times per year
Amine 2-4D	5-6 times per year
Insecticides	
Bandit	1 time per year
Dormant Oil	2-3 times per year

Attachment 2F-4: Significant Leaks or Spills Response to Form 2F Section VI.

Date	Location	Amount	Material
June 29, 2017	Building 3	700 pounds	Methylamine
April 21, 2016	Building 3	6,000 pounds	Toluene

Spill Criteria:

- 1) Release was non-airborne,
- 2) Identified material is hazardous or toxic, and
- 3) Spill occurred outside that had a potential to discharge through stormwater outfalls or direct discharge to river.

		•	ļ	. IVIAX \	/alues	Avg V	parameter and the second	No. Storm	
	Pollutant	Believed Present	Testing Required	Initial Grab	Flow- Weighted Composite	Initial Grab	Flow- Weighted Composite	Events Sampled	Units
t A	Required Parameters	- Frederik	1111111111						
	O&G	NA	X	0		0	Angel Color Colors	12	mg/L
N-1-494-4-404-4	BOD5	NA	X					0	
	COD	NA	X	73.5		21.2		14	mg/L
	TSS	NA	X	70.0	: *	15.1		14	mg/L
	Total Nitrogen	NA	X					0	
1-1-10/07/2-1-1	Total Phosphorus	NA	X					0 ;	
	На	NA NA	X	7.7	•	7.1		14	SU
В	Pollutants included in facility effluent guidelines, or listed in N	PDES permit	for process	wastewater (i	.e. Outfalls 00)1, 1A, 1B, and	i 1C)		
	TOC	NA	X	27.6		9.06		14	mg/L
	Ammonia	NA	X	(•			. 0	
	TKN	NA	X	•		· 		0 :	
	Nitrate-Nitrite	NA	X			· .		0 ,	
-14	Fluoride	NA	X		: 			0	
	E.coli	NA	X					0	****
	Chromium, Total	NA	X	•				0	
ABT-1-10	Copper, Total	NA	X			· · · · · · · · · · · · · · · · · · ·		0	
W	Lead, Total	NA .	×					0	
were en en en en	Nickel, Total	NA	X					0	***
	Zinc, Total	NA.	×					0	
	Perfluoroctanoic Acid (PFOA)								
	Perfluorobutanoic Acid (PFBA)	***							
- water	Perfluorobutanesulfonamide (PFBSA)	1							
* ****	Perfluorooctanesulfonamide (PFOSA)								
	Perfluorooctanesulfonate (PFOS)								
	Perfluorobexanoic Acid (PFHxA)				See Atta	chment 2C-4			
	Perfluoronexanoic Acid (PFHpA)								
	The state of the s								
	Perfluorobutanesulfonate (PFBS)								
	Perfluorohexanesulfonate (PFHS)								
	2-(N-ethyl-PFOSA) acetic acid	1							
	T IN mothed DECICAL reations of								
	2-(N-methyl-PFOSA) acetic acid	<u> </u>	, , , , , , , , , , , , , , , , , , , 			,		0	
	Acenaphthene	NA NA	<u> </u>	***************************************				0	
		NA	<u> </u>	4				0	
	Acenaphthene Acrylonitrile Benzene	NA NA	×					0	
	Acenaphthene Acrylonitrile Benzene Carbon tetrachloride	NA NA NA	X X					0 0 0	
	Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene	NA NA NA NA	X X X					0 0 0	
	Acenaphthene Acrylonitrile Benzene Carbon tetrachloride	NA NA NA NA	X X X					0 0 0 0	
	Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene	NA NA NA NA NA	X X X X					0 0 0 0	
	Acenaphthene Acryjonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene	NA NA NA NA	X X X X X					0 0 0 0 0	
	Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene	NA NA NA NA NA	X X X X					0 0 0 0 0 0	
	Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane	NA NA NA NA NA NA	X X X X X					0 0 0 0 0 0 0	
	Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane	NA NA NA NA NA NA NA	X X X X X X					0 0 0 0 0 0	
	Acenaphthene Acryjonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,1-dichloroethane	NA NA NA NA NA NA NA NA NA NA NA	X X X X X X X X X X X X X X X X X X X					0 0 0 0 0 0 0	
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	Acenaphthene Acryjonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,1-dichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane	NA NA NA NA NA NA NA NA NA NA NA NA NA N	X X X X X X X X X X X X X X X X X X X					0 0 0 0 0 0 0 0 0	
	Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane Chloroethane Chloroform	NA NA NA NA NA NA NA NA NA NA NA NA NA N	X X X X X X X X X X X X X X X X X X X					0 0 0 0 0 0 0 0 0 0	
	Acenaphthene Acryjonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-drichloroethane Chloroform 1,2-dichlorobenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N	X X X X X X X X X X X X X X X X X X X					0 0 0 0 0 0 0 0 0 0 0 0	
	Acenaphthene Acryjonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane Chloroethane Chloroform 1,2-dichlorobenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N	X X X X X X X X X X X X X X X X X X X					0 0 0 0 0 0 0 0 0 0 0 0 0	
	Acenaphthene Acryjonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane Chloroethane 1,1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N	X X X X X X X X X X X X X X X					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
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	Acenaphthene Acryjonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane Chloroethane Chloroethane Chloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichloroethylene (1,1-dichloroethene) 1,2-trians-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 2,4-dinitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N	X X X X X X X X X X X X X X X X X X X					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Acenaphthene Acryjonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (1,1-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,3-dichloroethylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4,6-dinitro-o-cresol (2-Methyl-4,6-dinitrophenol) 4,6-dinitro-o-cresol (2-Methyl-4,6-dinitrophenol)	NA NA NA NA NA NA NA NA NA NA NA NA NA N	X X X X X X X X X X X X X X X X X X X					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Acenaphthene Acryjonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloropropane) 1,3-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (D chloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 2,4-dinitro-o-cresol (2-Methyl-4,6-dinitrophenol) Phenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N	X X X X X X X X X X X X X X X X X X X					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Acenaphthene Acryjonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,2-trans-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloropropene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (D.chloromethane) Methyl chloride (Chioromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 2,4-dinitro-o-cresol (2-Methyl-4,6-dinitrophenol) Phenol Bis(2-ethylhexyl) phthalate	NA NA NA NA NA NA NA NA NA NA NA NA NA N	X X X X X X X X X X X X X X X X X X X					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Acenaphthene Acryjonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloropropane) 1,3-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (D chloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 2,4-dinitro-o-cresol (2-Methyl-4,6-dinitrophenol) Phenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N	X X X X X X X X X X X X X X X X X X X					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Acenaphthene Acryjonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,2-trans-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloropropene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (D.chloromethane) Methyl chloride (Chioromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 2,4-dinitro-o-cresol (2-Methyl-4,6-dinitrophenol) Phenol Bis(2-ethylhexyl) phthalate	NA NA NA NA NA NA NA NA NA NA NA NA NA N	X X X X X X X X X X X X X X X X X X X					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Acenaphthene Acryjonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1-1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane Chloroethane Chloroethane 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,4-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropenzene 1,3-dichloroethylene (trans-1,3-dichloroethene) 1,2-dichloropenpane 1,3-dichloroethylene (trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (D.chloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 2,4-dinitrophenol 4,6-dinitro-c-cresol (2-Methyl-4,6-dinitrophenol) Phenol Bis(2-ethylhexyl) phthalate Dien-Butyl Phthalate	NA NA NA NA NA NA NA NA NA NA NA NA NA N	X X X X X X X X X X X X X X X X X X X					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Acenaphthene Acryjonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,2-trans-dichloroethyiene (trans-1,2-dichloroethene) 1,2-trans-dichloroethyiene (trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4,6-dinitrophenol 4,6-dinitrophenol Bis(2-ethylhexyl) phthalate Di-n-Butyl Phthalate	NA NA NA NA NA NA NA NA NA NA NA NA NA N	X X X X X X X X X X X X X X X X X X X					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

			,	Max	Values	Avg V	alues	T	
	- W	!			Flow	•·····································	Flow-	No. Storm	1
	Pollutant	Believed	Testing	Initial Grab	Weighted Composite	Initial Grab	Weighted Composite	Events	
	Benzo(b) fluoranthene (3,4-Benzofluoranthene)	Present NA	Required X	initial Grap	Composite	Initial Grad	Composite	Sampled 0	Units
	Benzo(k) fluoranthene	NA NA	. ^	organis is a management of the committee of the	4			*	de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la
	Chrysene	NA	X		4			0	•
	Acenaphthylene	NA	X				Marana de la composición dela composición de la composición de la composición de la composición de la composición dela composición de la c	0	•
	Anthracene	NA	X			ļ		0	• • • • • • • • • • • • • • • • • • • •
	Fluorene	NA	χ					0	1
	Phenanthrene	NA	X		de la companya de la		P. LANCON CO. CO. CO. CALLED	0	•
	Pyrene	NA	X			†		0	
	Tetrachloroethylene (Tetrachlorethene)	NA	. x		4	·····		0	
	Toluene	NA	X	0	•	0.00	management and the contract of	12	ug/L
	Trichloroethylene (Trichlorethene)	NA	X		Commence of the contract of the contract of	***************************************		0	1
	Vinyl chloride	NA	x		*	år a a som a communication a communication al		0	<u>†</u>
	Cyanide, Total	NA	X	THE PART CLASS OF THE PART OF		• • • • • • • • • • • • • • • • • • • •		0	
rt C	Pollutants known or believed to be present (and listed in Table	es 2F-2, 2F-3,	and 2F-4)					:	
	Table 2F-2		14 14 14 14 14 14 14 14 14 14 14 14 14 1					0	Ī
	Bromide		• · · · · ·		:			0	
	Chlorine, Total Residual							0	
	Color		•					0	
	Fecal Coliform		1					0	
	Fluoride	×	X			•		0	
	Nitrate-Nitrite							0	
	Nitrogen, Total Organic							0	}
	Oil and Grease	x	X					0.	
	Phosphorus, Total	×	X					0	
	Radioactivity					i		0	<u> </u>
	Sulfate	×	X					O O	
	Sulfite	×	Х		i			0	1
	Surfactants	×	X		the state of the s		haanneren ann an eadh a chaile a'	0)
	Aluminum, Total					İ		0	1
	Barium, Total	×	X	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	• ·	**************************************		0	
	Boron, Total			*		!		0	t .
	Cobalt Total	X	X	Section Management Control of the Co	4		• • • • • • • • • • • • • • • • • • • •	0	•
	Iron, Total	X	X	A CONTRACTOR			programme and any secundaries are the Proof	0	
	Magnesium, Total		·		• · · · · · · · · · · · · · · · · · · ·			0	İ
	Molybdenum, Total	×	χ	a bar at a real management and second members and				0	Processor Advanta Security Security and Committee of the con-
	Manganese, Total	X	X		• • • • • • • • • • • • • • • • • • • •	i :	E-1	0	
	Tin, Total	, X	X		**************************************			0	
	Titanium, Total							0	
	Table 2F-3		** * * * * ****** :					ī	•
	Antimony, Total	×	x	•				0	•
	Arsenic, Total		:		! !			0	
	Beryllium, Total		•					0	
	Cadmium, Total				:			0	• comment of the above of a
	Chromium, Total							0	
	Copper, Total	x	X					O	
	Lead, Total	X	X					0	
	Mercury, Total	, X	x			1		0	:
	Nickel, Total							0	-
	Selenium, Total							0	
	Silver, Total				• · · · · · · · · · · · · · · · · · · ·		6 . (, 8, .) 19 5 -	0	
	Thallium, Total	endere en la companya de la companya		- Marie - Service Services of the state of the service - Marie Service (Service)				0	
	Zinc, Total	×	X			. '		0	
	Cyanide, Total							o	
	Phenois, Total	x	x					0	
	Acrolein		and a second contract of	e manufere and debuted to a contract of the co	[0	•
	Acrylonitrile					,		0	
	Benzene							0	
	Bromoform				1	: :		0	1
	Carbon Tetrachloride							0	
	Chlorobenzene							0	
	Chlorodibromomethane		;			1		0	
	Chloroethane	£						0	1
	2-Chloroethylvinyl Ether							0	
		Ę	1			5			1
	Chloroform	i	ì					'n	
	Dichlorobromomethane	i	1			1		, ,	\$
	1,1-Dichloroethane	U	v					Δ	
	1,2-Dichloroethane	X	x					, A	
	1,1-Dichloroethylene								
	1,2-Dichloropropane							0	
	1,3-Dichloropropylene							0	
	Ethylbenzene	X	Х					0	

		1	Max	Values	Avg \	/alues		<u>,</u>
	- 			Flow-	·	Flow-	No. Storm	1
	Poliutant	Believed	Testing	Weighted		Weighted	Events	
	A A A L J Plus A J	Present	Required Initial Grab	Composite	Initial Grab	Composite	Sampled 0	Units
i	Methyl Bromide Methyl Chloride			1			O	1
	Methylene Chloride						0	
	1,1,2,2, Tetrachloroethane		£				0	
	Tetrachloroethylene			1			0 -	
	Toluene	X	X.				0 .	
	1,2-Trans-Dichloroethylene						٥	
	1,1,1-Trichloroethane						0	
	1,1,2-Trichloroethane						0	
	Trichloroethylene	*					0	
	Vinyl Chloride	1	r	i		t :	0	4
	2-Chlorophenol				<u> </u>	,	0	<u> </u>
-	2,4-Dichlorophenol	1				:	Ď	\$
	4,6-Dinitro-O-Cresol						0	
	2,4-Dinitrophenol						0	
	2-Nitrophenol						0	
	4-Nitrophenol						0	
	p-Chloro-M-Cresol						0	
	Pentachiorophenol				}		0	
	Phenol	X	X	•			0	ı
1	2,4,6-Trichlorophenol	1			1		0	1
	2-methyl-4,6 dinitrophenol						0	
	Acenaphthene						0:	
	Acenaphthylene Anthracene						ō	
4	Benzidine	1	1				ō	1
·	Benzo(a)anthracene		Company of the Compan		*		0	
-	Benzo(a)pyrene						0	
-	3,4-Benzoflugranthene						0	
	Benzo(ghi)perylene						0	ļ
	Benzo(k)fluoranthene				•		0	
	Bis(2-chloroethoxy)methane				*		0	
	Bis(2-chloroethyl)ether						0	1
	Bis(2-chloroisopropyl)ether		-	 	******************		0	
-	Bis(2-ethylyhexyl)phthalate 4-Bromophenyl Phenyl Ether						<u>~</u>	}
	Butylbenzyl Phthalate			i	• • • • • • • • • • • • • • • • • • • •		0	
1	2-Chloronaphthalene						0	
1	4-Chlorophenyl Phenyl Ether						0	-
	Chrysene						0	r
	Dibenzo(a,h)anthracene	.1					0	
	1,2-Dichlorobenzene						0	
	1,3-Dichlorobenzene						0	
	1,4-Dichlorobenzene		3	,	:		0	I
-	3,3'-Dichlorobenzidine				ĺ	1	0	l
	Diethyl Phthalate						. 0	
	Dimethyl Phthalate	X	X				0	
l	Di-N-Butyl Phthalate 2,4-Dinitrotoluene	1	-				0	1
14.00	2,6-Dinitrotoluene						0	
	Di-N-Octyphthalate		t i i i i i i i i i i i i i i i i i i i				0	
-	1,2-Diphenylhydrazine (as Azobenzene)		*····	•			0	
	Fluroranthene				:		0	1
	Fluorene						0	
	Hexachlorobenzene						0	
6.3	Hexachlorobutadiene						0	
1	Hexachloroethane			,	j .	`	0	1
	Indeno(1,2,3-cd)pyrene		÷		<u> </u>	<u></u>	0	
	Napthalene			<u> </u>	*** ** ****** *************************		o -	
į	Nitrobenzene		r -			,	0: .	
	N-Nitrosodimethylamine						0	1
	N-Nitrosodi-N-Propylamine	· · · • · · · · · · · · · · · · · · · ·		•	1		O	
+	N-Nitrosodiphenylamine				†	•	0	
,	Phenanthrene				•		0-	
	Pyrene						· · • • • • • • • • • • • • • • • • • •	
	1,2,4-Trichtorobenzene						0	
1	Aldrin			·			0	
I	Alpha-BHC				1		0	L
1 -	Beta-BHC		1		1		0	

				Max	Values	Ave V	/alues		
	Pollutant	Believed	Testing		Flow- Weighted		Flow- Weighted	No. Storm Events	!
		Present		Initial Grab	Composite	Initial Grab		Sampled	Units
1	Delta-BHC							0	
	Chlordane			and the second				0	
	4,4'-DDT						was taken a summarian	. 0	.4
	4,4'-DDE				 		.	0	
	4,4'-DDD				<u> </u>			0	
	Dieldrin		.				<i>,</i>		-k
	Alpha-Endosulfan		ļ					0	+
	Beta-Endosulfan		F		 		** **********************************	0	+
	Endosulfan Sulfate				1				-
;	Endrin		in a second		•	£	.		
	Endrin Aldehyde Heptachlor			*	•	*	1	0	
	Heptachlor Epoxide				•			0	***************************************
·	PCB-1242		*				•	G	
	PCB 1254				Property and the second of the second		•	0	
	PCB-1221				·			0	***************************************
	PCB-1232		•	*				0	
	PCB-1248		+					0	
	PCB-1260				*****			0	
	PCB-1016		***************************************	- pur a la como de ser emperar entre	i i			0	
	Toxaphene			man control of the control of	•		1	0	1
T.	able 2F-4				<u>.</u>			and an arrange to the second	, the state of the
	Asbestos			***************************************	T			0	and the day independent
	Acetaldehyde	X	X		1		1	0	
	Allyl alcohol							0	
	Allyl chloride							0	
	Amyl acetate	energia de la compania del compania del compania de la compania del la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania del la compa	Maria Cara Palance Control		· · · · · · · · · · · · · · · · · · ·			0	
	Aniline							0	1
-	Benzonitrile							0	1
-	Benzyl chloride	X	, X		•		and the second second	0	
	Butyl acetate							0	1.
•	Butylamine			a de la compania del compania de la compania de la compania del compania de la compania del la compania del la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania del la compania de la		<u>.</u>	: •	0	and some
	Carbary!				<u></u>		• commentent about	0	J
	Carbofuran			unio de la compania del compania del compania de la compania del la compania de la compania de la compania de la compania de la compania dell			•	0	
	Carbon disulfide			4				0	
	Chlorpyrifos					: •	į	0	***
	Coumaphos		allege of the second of the second	A-40-4- A-110-110-110-110-1	: •	· •		0	
	Cresol		***************************************					0	
	Crotonaldehyde				·	ļ		0	
	Cyclohexane	. х	. ^		ļ	i	1	0	
	2,4-D (2,4-Dichlorophenoxyacetic acid)				‡	•	 	a	- 4
	Diazinon		Mary produce grant name	a appearant and collections where the time a section 17%	4	}		. 0	
	Dicamba				***************************************	.			
	Dichlobenil					4			
	Dichlone	on the second second			*****************			0	
‡	2.2-Dichloropropionic acid				#mm ++ ++ ++	·			-
	Dichlorvos	-					+	0	
-	Diethyl amine		***************************************	460				0	†
	Dimethyl amine Dinitrobenzene	******	!				• · · · · · · · · · · · · · · · · · · ·	0	Ť
· · · · ·	Diquat					****	4	0	
	Disulfoton	man de la companie	was a second	•		**************************************		0	
	Diuron				aleste i con con consente	*···		0	
-+-	Epichlorohydrin					1	*	0	L
	Ethion			***************************************			4 - 1-1-1-1	0	
	Ethylene diamine	X	X		***************************************		*	0	
	Ethylene dibromide				1		************	0	
		X	X	Company of the Ball Control of Co	1	i .	A Brown Commission (Art Water Ve-	0	
	Formaldehyde	•			1	1		0	
+	Formaldehyde Furfural		A conservation					0	i
								4 · · · · · · · · · · · · · · · · · · ·	
	Furfural Guthion							0	
	Furfural Guthion Isoprene						•	0	
	Furfural Guthion Isoprene Isopropanolamine		• • • • • • • • • • • • • • • • • • • •					0 0 0	
	Furfural Guthion Isoprene Isopropanolamine Kelthane	. 1	•			•		0	
	Furfural Guthion Isoprene Isopropanolamine Kelthane Kepone							0 0 0	
	Furfural Guthion Isoprene Isopropanolamine Kelthane Kepone Malathion	. 1	•					0 0 0	
	Furfural Guthion Isoprene Isopropanolamine Kelthane Kepone Maiathion Mercaptodimethur						•	0 0 0 0	
	Furfural Guthion Isoprene Isopropanolamine Kelthane Kepone Maiathion Mercaptodimethur Methoxychlor	- 1					•	0 0 0	
	Furfural Guthion Isoprene Isopropanolamine Kelthane Kepone Malathion Mercaptodimethur Methoxychlor Methyl mercaptan		x					0 0 0 0	
	Furfural Guthion Isoprene Isopropanolamine Kelthane Kepone Maiathion Mercaptodimethur Methoxychlor Methyl mercaptan Methyl methacrylate	X						0 0 0 0 0	
	Furfural Guthion Isoprene Isopropanolamine Kelthane Kepone Malathion Mercaptodimethur Methoxychlor Methyl mercaptan	X	x					0 0 0 0 0	

		Max	Values	Avg \	/alues		
Pollutant	Believed Present	Testing Required Initial Grab	Flow- Weighted Composite	Initial Grab	Flow- Weighted Composite	No. Storm Events Sampled	Units
Monoethyl amine						0	****
Monomethyl amine	X	X	1		(0	
Naled .	:					0	and the second second
Napthenic acld						0	
Nitrotoluene		1			!	0	
Parathion			-			0	
Phenoisulfonate	X	X		<u> </u>	! •	0	
Phosgene	X	X				0	
Propargite					:	0	
Propylene oxide						0	epoples and a review with the last
Pyrethrins						0	
Quinoline						0	
Resorcinol			I			0	
Stronthium				i	the right of the second second second	0	
Strychnine						0	-
Styrene	X	X		•		0	
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)						0	
TDE (Tetrachlorodiphenyl ethane)	i					0	
2,4,5-TP [2-(2,4,5-Trichlorophenoxy) propanoic acid]			!			O	Company with the second billion
Trichlorofan				•		0	
Triethylamine	X	X	Ì			0	
Trimethylamine				•		0	
Uranium	1				and the second second second second	0	
Vanadium				•		0	
Vinyl acetate	X	X		•		0	
Xylene	×	X				0	
Xylenol						0	
Zirconium				1		G	

				, xbivi	Values Flow-	Avg V	Flow-	No. Storm	
		Pollutant	Believed Present	Initial Grab	Weighted	Initial Grab	Weighted	Events Sampled	Units
t A	Re	quired Parameters	1						
		O&G	NA	0		0	-mary and a common support of the common sup	12 0	mg/L
	+	BOD5	NA NA	37.3		16.9	Market Control of the	14	mg/L
	-	COD	. NA	53.6		16.9	Automorphism of the Control of the C	14	mg/L
	-	Total Nitrogen	NA NA	33.0			***********************	0	
		Total Phosphorus	NA					0	
		pH	NA	7.9		7.3		14	SU
		Partie 1 of 1 to 2 and 2							endered the second section of
В	Po	llutants included in facility effluent guidelines, or listed in N			astewater (i.e		and A01)	l Names and a green and a second but	
	, .	TOC	NA	14	<u> </u>	7.1		. 14	mg/L
	٠.,	Ammonia	NA	 	•	+		0	
a. wat - t - e		TKN	NA NA	ļ		ļ	AND DESCRIPTION OF THE PERSON		
	and the same	Nitrate-Nitrite Fluoride	NA NA	<u> </u>				0	Carlotta and the Control of the Cont
	4	E.coli	. NA	+			THE RESERVE OF THE PARTY OF THE	0	
	4	Chromium, Total	NA					0	on designation to the behavior of the second V A
	+	Copper, Total	. NA	Manager of the second s		1	the college paper of the all the train of the college and the	0	
		Lead, Total	NA	*	* C			0	
		Nickel, Total	NA			*** ***********************************		0	
		Zinc, Total	NA				and the second s	0	
	1	Perfluoroctanoic Acid (PFOA)							
		Perfluorobutanoic Acid (PFBA)	1						
		Perfluorobutanesulfonamide (PFBSA)							
		Perfluorooctanesulfonamide (PFOSA)	4						
		Perfluorooctanesulfonate (PFOS)	4		_				
	-	Perfluorohexanoic Acid (PFHxA)	4		Se	ee Attachment	2C-4		
	-	Perfluoroheptanoic Acid (PFHpA)	4						
	1	Perfluorobutanesulfonate (PFBS)	4						
	4_	Perfluorohexanesulfonate (PFHS)	4						
	-	2-(N-ethyl-PFOSA) acetic acid	4						
	+	2-{N-methyl-PFOSA) acetic acid	NA NA		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		0	
		Acenaphthene	NA NA	•		•	erroren sarran en en en en en en en en en en en en en	0	general and the
	+ -	Acrylonitrile Benzene	NA.	 				0	
	-	Carbon tetrachloride	NA NA	 				0	manodistracionatistichis sistema
	+	Chlorobenzene	NA			<u> </u>		0	more dans to a discount of the dis-
	+	1,2,4-trichlorobenzene	NA			<u> </u>		0	and the second second second second
	†	Hexachlorobenzene	NA					0	
		1,2-dichloroethane	NA NA			-			LIVER TO SECTION AND ADDRESS OF THE PARTY OF
		: 1,2-uic: noi decitaire		1				0	
	+	1,1,1-trichloroethane	NA					0	r - c - colorge - cal - c lobbler i
	-	The state of the s	NA NA	and the same and t					
	-	1,1,1-trichloroethane	-					0	
	-	1,1,1-trichloroethane Hexachloroethane	NA					0	
	+	1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane	NA NA					0	
		1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane	NA NA NA					0 0 0 0	
		1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane Chloroethane Chloroform 1,2-dichlorobenzene	NA NA NA NA NA					0 0 0 0	
		1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane Chloroethane Chloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene	NA NA NA NA NA NA					0 0 0 0 0	
		1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane Chloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene	NA NA NA NA NA NA					0 0 0 0 0 0	
		1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane Chloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene)	NA NA NA NA NA NA NA					0 0 0 0 0 0 0	
		1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane Chloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene)	NA NA NA NA NA NA NA NA NA					0 0 0 0 0 0 0	
	The control of the co	1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane Chloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane	NA NA NA NA NA NA NA NA NA					0 0 0 0 0 0 0 0 0	
		1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane Chloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,1-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0	
		1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane Chloroethane Chloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0	
		1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0	
		1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0	
		1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane Chloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0	
		1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane Chloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane Chloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chioromethane) Hexachlorobutadiene Naphthalene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane Chloroethane Chloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-trans-dichloroethylene (trans-1,3-dichloropropane 1,3-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene Pointrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane Chloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methyl chloride (Chichloromethane) Methyl chloride (Chicromethane) Hexachlorobutadene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 2,4-dinitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane Chloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 2,4-dinitrophenol 4,6-dinitro-o-cresol (2-Methyl-4,6-dinitrophenol)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane Chloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methyl chloride (Chichloromethane) Methyl chloride (Chicromethane) Hexachlorobutadene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 2,4-dinitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

			Max \	/alues	Avg \	/alues		
	Dall Arms			Flow-		Flow-	No. Storm	
	Pollutant	Believed		Weighted		Weighted	Events	
		Present	Initial Grab	Composite	Initial Grab	Composite	Sampled	Units
	Diethyl Phthalate	NA	4.11.11.11.		å .		0	
	Dimethyl phthalate	NA					0	ee oo oo talaa talaan
	Benzo(a) anthracene	NA	**				0	
	Benzo(a) pyrene	NA					0	era radica e carecitá iso
-		NA NA	+	•			0	
	Benzo(b) fluoranthene (3,4-Benzofluoranthene)	NA NA					0	
	Benzo(k) fluoranthene	.,		•			0	
	Chrysene	NA NA					0	
	Acenaphthylene	. NA			ļ		i	
	Anthracene	NA			ļ		0	
	Fluorene	NA NA		•			<u> </u>	
	Phenanthrene	NA.	·				0	
	Pyrene	NA NA					<u> </u>	
	Tetrachioroethylene (Tetrachiorethene)	NA		i 1			0	
	Toluene	NA	0	1	0		12	ug/L
1	Trichloroethylene (Trichlorethene)	NA		i			0	
-,	Vinyl chloride	NA		1			0	
	Cyanide, Total	NA			-		0	
	Cypinally (State)				4			
	ollutants known or believed to be present (and listed in 1	ables 25-2, 25-3	and 2F-4)	 	*		1	
	Table 2F-2		7	(1	:	0	-
	A SECURE OF THE PROPERTY OF TH		i		<u> </u>	•	0	*****
-	Bromide Chromital Parish at			1			0	
	Chlorine, Total Residual				*	.	0	
	Color		÷	i		*	0	
	Fecal Coliform						0	
	Fluoride	x						
	Nitrate-Nitrite						0.	
i	Nitrogen, Total Organic				i.		0	
	Oil and Grease	X					0	
	Phosphorus, Total	x					0	
- 1	Radioactivity					i	0	
*	Sulfate	X					0	para managan kanada da kan
	Sulfite	X					0	
	Surfactants	X		÷			0	•
	Aluminum, Total			4		•	0	
	Barium, Total	- X		·	#	***************************************	0	
	Boron, Total			•		-	0	
	Cobalt Total	X			****		0	the state of the s
	Confidence control of the control of	· · · · · · · · · · · · · · · · · · ·		·		*****	0	•
	iron, Total	• • • • • • • • • • • • • • • • • • • •			:		0	
	Magnesium, Total	x		• • • • • • • • • • • • • • • • • • • •			ŏ	
	Molybdenum, Total		. .	+			0	•
	Manganese, Total	X			 	<u></u>	0	
· 000	Tin, Total	<u> </u>	and a second of the second of the second of			,		****
	Titanium, Total			·	+		0	
	Table 2F-3				 			
	Antimony, Total	X				Marie Contract of the Artist	0	
. 1	Arsenic, Total			1 • • • • •		.	0	**********
	Beryllium, Total	i	,	ages a superpopulation of the	·		0	
	Cadmium, Total					ţ.	. 0	
4	Chromium, Total						0	
	Copper, Total	· X					0	
	Lead, Total	X					0	
f	Mercury, Total	X		2		-	0	
	Nickel, Total	1 **	:	i			0	
		1		1		1	o	
	Selenium, Total			+		 	0	
į	Silver, Total				+	1		
	Thallium, Total		i	I		i	0	
	Zinc, Total	X						
	Cyanide, Total					1	0.	
1	Phenols, Total	X		<u> </u>		+	0	
····	Acrolein						0	
!	Acrylonitrile						0	
	Benzene						0	
	Bromoform			1		,	0	
ļ	i contraction and the contraction of the contractio				1		0	
	Carbon Tetrachloride						ņ	
,	Chlorobenzene				i		. 0	
dankon	Chlorodibromomethane				1		-	
	Chloroethane				,		0	
	2-Chloroethylvinyl Ether				į.		0	

		:	Max \	/alues	Avg \	/alues	
	Dollutant	1	Part charge management vicinities	Flow-	· · · · · · · · · · · · · · · · · · ·	Flow-	No. Storm
	Pollutant	Believed		Weighted		Weighted	Events
		Present	Initial Grab	Composite	Initial Grab	Composite	Sampled Units
	Chloroform						0
1	Dichlorobromomethane		ĺ		ĺ		0
	1,1-Dichloroethane						0
	1,2-Dichloroethane	X					0
	1,1-Dichloroethylene						0
	1,2-Dichloropropane						0
	1,3-Dichloropropylene						0
	Ethylbenzene	x					0
+	Methyl Bromide		:		!		0 :
,	Methyl Chloride	,	,				0
	Methylene Chloride						0
1	1,1,2,2,-Tetrachloroethane		· i		1		0
3	Tetrachloroethylene	i			1	1	0
	Toluene	x					0
		^					Ô
	1,2-Trans-Dichloroethylene						
	1,1,1-Trichloroethane						^
	1,1,2-Trichloroethane				•		0
	Trichloroethylene						Ü
1	Vinyl Chloride				1	i :	0
	2-Chlorophenol			Maria Asa 111			0 :
1	2,4-Dichlorophenol				ì	:	0
	2,4-Dimethylphenol						0
	4,6-Dinitro-O-Cresol						0
	2,4-Dinitrophenol						0 -
	2-Nitrophenol						0
	4-Nitrophenol						0
	p-Chloro-M-Cresol	1			1		0
	Pentachlorophenol				 		0
	Phenoi	X			1		O.
		^			1		0
	2,4,6-Trichlorophenol		ı i		1		
	2-methyl-4,6 dinitrophenol						•
	Acenaphthene						•
	Acenaphthylene						Ü
	Anthracene	1					U
	Benzidine	+			ļ		0
	Benzo(a)anthracene				!		0
	Benzo(a)pyrene					·	0
	3,4-Benzofluoranthene			· · · · · · · · · · · · · · · · · · ·			0
1	Benzo(ghi)perylene						0
	Benzo(k)fluoranthene						0
1	Bis(2-chloroethoxy)methane					-	0
	Bis(2-chloroethyl)ether		· · · · · · · · · · · · · · · · · · ·				0
	Bis(2-chloroisopropyl)ether			er e e e e e e e e e e e e e e e e e e			0
	Bis(2-ethylyhexyl)phthalate		· · · · · · · · · · · · · · · · · · ·			•	0
	4-Bromophenyl Phenyl Ether	+	mana a a a a a a a a a a a a a a a a a a		<u> </u>		0
	Butylbenzyl Phthalate			and the second second second	•		0
	· · · · · · · · · · · · · · · · · · ·		····· •		i		
	2-Chloronaphthalene 4-Chlorophenyl Phenyl Ether		····		•, •		0
1		1	5			i	0
-	Chrysene	1	i			4	0
1	Dibenzo(a,h)anthracene		ì			ļ	U
	1,2-Dichlorobenzene						U
	1,3-Dichlorobenzene						3
	1,4-Dichlorobenzene						0
	3,3'-Dichlorobenzidine						0
	Diethyl Phthalate						0
	Dimethyl Phthalate	x					0
	DI-N-Butyl Phthalate						0
40	2,4-Dinitrotoluene	!	į				0
	2,6-Dinitrotoluene	:					0
	Di-N-Octyphthalate	· · · · · · · · · · · · · · · · · · ·					0
+	1,2-Diphenylhydrazine (as Azobenzene)		····	AMERICAN CONTRACTOR CONTRACTOR			0
- 1	· · · · · · · · · · · · · · · · · · ·	-	·				
J	Fluroranthene	1	i				0
	Fluorene						<u>v</u>
	Hexachlorobenzene						
	Hexachlorobutadiene						0
	Hexachloroethane						0
	Indeno(1,2,3-cd)pyrene	į			:		0
-	moeno(1,2,3-cu)pyrene						

		<u> </u>	Max	/alues	Avg V	alues		
	Pollutant	Believed		Flow- Weighted		Flow- Weighted	No. Storm Events	
		Present	Initial Grab	Composite	Initial Grab	Composite	Sampled	Units
	Napthalene	ali-	i				0	
	Nitrobenzene N-Nitrosodimethylamine	i			: *		0 0	
	N-Nitrosodi-N-Propylamine		<u> </u>				0	
	N-Nitrosodiphenylamine		4				0	
	Phenanthrene					ì	0	
	Pyrene						0	
	1,2,4-Trichlorobenzene						0	
	Aldrin		;				0	~
	Alpha-BHC Beta-BHC	······································	•				0	
	Gamma-BHC					er er er en er er er er er er er er er	0	
	Delta-BHC		·				0	
	Chlordane		:				0	
	4,4'-DDT	i					0	manda market et e. del e tre e de els
	4,4'-DDE		<u>.</u>				0	
	4,4'-DDD Dieldrin				: 		0	
	Alpha-Endosulfan				Principality — principality formula T		0	
	Beta-Endosulfan				kontra a santa santa a santa a santa santa a santa santa santa santa santa santa santa santa santa santa santa		0	
1.71	Endosulfan Sulfate						. 0	
امرین اید در در	Endrin						0	
	Endrin Aldehyde						0	agoriada a especial de la composição de la composição de la composição de la composição de la composição de la
	Heptachlor						0	
	Heptachlor Epoxide PCB-1242	-			personal contract to the contr		0	
	PCB-1242 PCB-1254					en e a comunica de la comunicación con	0	
	PCB-1221						0	
	PCB-1232						0	
	PCB-1248						0	
	PCB-1260				mana mana a kan mananananan		0	
	PCB-1016						<u> </u>	
	Toxaphene Table 2F-4						0	
-	Asbestos						0	
	Acetaidehyde	x					0	
	Allyl alcohol		***************************************		en en en en en en en en en en en en en e		0	
	Allyl chloride	· · · · · · · · · · · · · · · · · · ·	,				0	
	Amyl acetate		: •				0	managamanta
	Aniline Benzonitrile						0	
	Benzyl chloride	×			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0	
	Butyl acetate				page and a second control of the second cont		0	April and a second second second
	Butylamine						0	
,	Carbaryl						0	
	Carbofuran						0	
	Carbon disulfide						0	
	Chlorpyrifos Coumaphos						0	
	Cresoi				•		0	
	Crotonaldehyde						0	
	Cyclohexane	х					0	
	2,4-D (2,4-Dichlorophenoxyacetic acid)						0	
	Diazinon						0	
	Dicamba Dichlobenil						0	
	Dichlone						0	
	2,2-Dichloropropionic acid				•		0	
	Dichlorvos	The second secon					0.	
	Diethyl amine	and the state of t					0	·
	Dimethyl amine						0	
	Dinitrobenzene						0	
	Diquat						0	
	Disulfoton						0	
	Diuron						0	
	Epichlorohydrin Ethion		***************************************		and the second s		0	

		: Max \	/alues	Avg \	/alues		
		1	Flow-	- #	Flow-	No. Storm	
Pollutant	Believed		Weighted	:	Weighted	Events	
	Present	initial Grab	Composite	Initial Grab	Composite	Sampled	Units
Ethylene dibromide		<u>}</u>		1		0	
Formaldehyde	X				1	0	
Furfural						0	and the second second
Guthion	1	,				0	
Isoprene		-	•			0	
Isopropanolamine		1				0	
Kelthane					1	0	
Kepone		1	!			0	anacana concession
Malathion		:	!		4	0	
Mercaptodimethur		+ ····································	1	1		0	
Methoxychlor			• · · · · · · · · · · · · · · · · · · ·		:	0	
Methyl mercaptan	4	•	Ţ			0	
Methyl methacrylate	x	1			I	0	
Methyl parathion						0	
Mevinphos					I	0	
Mexacarbate		·				0	
Monoethyl amine	4		T		Ī	0	
Monomethyl amine	X		1		1	0	page compression of the second second
Naled			1			0	
Napthenic acid					1	0	
Nitrotoluene						0	
Parathion						0	
Phenoisulfonate	х			· ·	I	0	
Phosgene	X		•			0	and the second second
Propargite						0 .	
Propylene oxide					1	0	tanderis at the c
Pyrethrins			1			0	A second reserve
Quinoline		*	1	•		0	
Resorcinol		Academical and a second state of the second state of the second s		A STATE OF THE STA	L	0	
Stronthium		1	the comment of the contract of		I	0	
Strychnine						0	of Carleson .
Styrene	X					0	en an transport of the orbital state of
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	and a subject of the		-			0	
TDE (Tetrachlorodiphenyl ethane)		1				0	Laufard D.C., daniel, debt 1
2,4,5-TP [2-(2,4,5-Trichlorophenoxy) propanoic acid]		-	1			0	
Trichlorofan		age of the second				0	
Triethylamine	X	:				0	g
Trimethylamine						0	
Uranium			1			0	
Vanadium				magazine, chianciani caracini		0	des entrementes entre en el el el el el el el el el el el el el
Vinyl acetate	X					0	de labba manara la manara est
Xylene	X		1		I	0	
Xyleno				manifestation and description of the Control of the	T	0	
Zirconium			1			0	

	Pollutant	Believed Present		Values Avg \ Flow- Weighted Composite Initial Grab	Flow- Weighted Composite	No. Storm Events Sampled	Units
ert A	Required Parameters	rresent	ITILIAI GIAO	Composite Initial Gran	Composite	Jampieu	
	O&G	NA	0	0		12	mg/L
	BOD5	NA			-	0	mg/L
ng mphanony ang art air , magna	COD	NA	53.1	20.7		13	mg/L
METERS PROPERTY	TSS	NA	441	97.7		13	mg/L
Naporo	Total Nitrogen	NA				0	mg/L
	Total Phosphorus	NA				0	mg/L
	PH	NA	8.1	7.4		13	SU
							war an insumer of the
art B	Pollutants included in facility effluent guidelines, or listed in NP	DES permit			and A01)		delegación o contrator
	тос	NA	23.3	9.42		13	mg/L
naa vanaaniin a	Ammonia	NA	·			0	
	TKN	NA	L	***************************************		0	
	Nitrate-Nitrite	NA	<u> </u>	reconstruction of the second s		0	
ngay to a state out one	Fluoride	NA	ļ			0	
	E.coli	NA				0	
	Chromium, Total	NA	:			0	
	Copper, Total	NA	-			0	
process as a superior to a such	Lead, Total	NA	<u> </u>			0 :	
	Nickel, Total	NA				0	~~
	Zinc, Total	NA			·	0	
*****	Perfluoroctanoic Acid (PFOA)	4					
	Perfluorobutanoic Acid (PFBA)	.]					
	Perfluorobutanesulfonamide (PFBSA)	4					
**********	Perfluorooctanesulfonamide (PFOSA)						
na one deservoir asserts	Perfluorooctanesulfonate (PFOS)	.					
	Perfluorohexanoic Acid (PFHxA)			See Attachment	: 2C-4		
ntelec i efektotekotki	Perfluoroheptanoic Acid (PFHpA)						
	Perfluorobutanesulfonate (PFBS)						
-							
	Perfluorohexanesulfonate (PFHS)	-					
	2-(N-ethyl-PFOSA) acetic acid						
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid		·				
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene	NA NA				0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile	NA				0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene	NA NA		1		0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride	NA NA NA		-		0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene	NA NA NA NA		1		0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene	NA NA NA NA				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene	NA NA NA NA NA				0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane	NA NA NA NA NA NA				0 0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene	NA NA NA NA NA				0 0 0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane	NA NA NA NA NA NA				0 0 0 0 0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane	NA NA NA NA NA NA				0 0 0 0 0 0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane Hexachloroethane	NA NA NA NA NA NA NA				0 0 0 0 0 0 0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane	NA NA NA NA NA NA NA NA				0 0 0 0 0 0 0 0 0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane Chloroform	NA NA NA NA NA NA NA NA NA NA NA				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane	NA NA NA NA NA NA NA NA NA NA NA NA NA N				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane Chloroform	NA NA NA NA NA NA NA NA NA NA NA NA NA N				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-ctrichloroethane Chloroethane Chloroethane Chloroform 1,2-dichlorobenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-dichloroethane 1,1-2-trichloroethane 1,1-2-trichloroethane 1,1-2-trichloroethane 1,1-2-trichloroethane 1,1-2-trichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-2-trichloroethane 1,1-2-trichloroethane 1,1-2-dichloroethane 1,1-2-dichloroethane 1,1-dichloroethane 1,1-dichlorobenzene 1,2-dichlorobenzene 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene)	NA NA NA NA NA NA NA NA NA NA NA NA NA N				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachioride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane 1,1,2-dichlorobenzene 1,1,2-dichlorobenzene 1,1-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene)	NA NA NA NA NA NA NA NA NA NA NA NA NA N				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane	NA NA NA NA NA NA NA NA NA NA NA NA NA N				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichlorobenzene 1,2-trians-dichloroethylene (1,1-dichloroethene) 1,2-dichloropopane 1,2-dichloropopane 1,3-dichloropopane 1,3-dichloropopane 1,3-dichloropopane 1,3-dichloropopopene)	NA NA NA NA NA NA NA NA NA NA NA NA NA N				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-2-trichloroethane 1,1-2-trichloroethane 1,1-2-dichloroethane 1,1-dichloroethane 1,1-dichlorobenzene 1,2-dichlorobenzene 1,2-dichlorobenzene 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropale 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene	NA NA NA NA NA NA NA NA NA NA NA NA NA N				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,1-dichloropenzene 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,3-dichloropropalene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-2-trichloroethane 1,1-2-trichloroethane 1,1-2-dichloroethane 1,1-dichloroethane 1,1-dichlorobenzene 1,2-dichlorobenzene 1,2-dichlorobenzene 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropale 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene	NA NA NA NA NA NA NA NA NA NA NA NA NA N				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane)	NA NA NA NA NA NA NA NA NA NA NA NA NA N				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene 1,1-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-2-trichloroethane 1,1,2-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,-dichlorobenzene 1,-dichlorobenzene 1,-dichloropenzene 1,-dichloropenzene 1,-dichloropenzene 1,-dichloropenzene 1,2-dichloropenzene 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane)	NA NA NA NA NA NA NA NA NA NA NA NA NA N				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropulene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenoi Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chioromethane) Hexachlorobutadiene Naphthalene	NA NA NA NA NA NA NA NA NA NA NA NA NA N				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropenzene 1,3-dichloropenzene 1,3-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,3-dichloropenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichlorobenzene 1,1-dichloroethylene {1,1-dichloroethene} 1,2-trans-dichloroethylene {trans-1,2-dichloroethene} 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,3-dichloroethylene {cis- and trans-1,3-dichloropropene} 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene Hexachloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-dichloroethane 1,1-2-trichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,2-trans-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichlorobenzene 1,2-dichlorobenzene 1,1-dichlorobenzene 1,2-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3	NA NA NA NA NA NA NA NA NA NA NA NA NA N				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,1-dichlorobenzene 1,1-dichloropenzene 1,1-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,3-dichloropenzene 1,3-dichloropenzene 1,3-dichloropenzene 1,3-dichloropenzene 1,3-dichloropenzene 1,3-dichloropenzene 1,3-dichloropenzene 2-nitrophenol Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 2,4-dinitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichlorobenzene 1,1-dichloropenzene 1,3-dichloropenzene 1,3-dichloropenzene 1,2-trans-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloropenzene 1,2-dichloropropane 1,3-dichloropropale (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 4-dinitrophenol 4,6-dinitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,1-dichlorobenzene 1,1-dichloropenzene 1,1-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,3-dichloropenzene 1,3-dichloropenzene 1,3-dichloropenzene 1,3-dichloropenzene 1,3-dichloropenzene 1,3-dichloropenzene 1,3-dichloropenzene 2-nitrophenol Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 2,4-dinitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

		!	Max V	'alues	Avg \	/alues		
	- #	!		Flow-	de marine a commence and the second design of the second	Flow-	No. Storm	1
	Pollutant	Belleved		Weighted		Weighted	Events	
		Present	Initial Grab	Composite	Initial Grab	Composite	Sampled	Units
	Diethyl Phthalate	NA					0	
	Dimethyl phthalate	NA	,	especies and their secretary	: \$	•	0	
	Benzo(a) anthracene	NA			i 1	j	0	
	Benzo(a) pyrene	NA .				<u> </u>	0	
	Benzo(b) fluoranthene (3,4-Benzofluoranthene)	NA				·	0	<u>.</u>
	Benzo(k) fluoranthene	NA NA		and the second s	_	4	0	
	Chrysene	NA			ļ	Management of the second transport of the second second second second second second second second second second	0	•
	Acenaphthylene	NA NA	A	anders are a standard to the second of the second	<u> </u>	<u> </u>		
	Anthracene	NA NA	4		•		. 0	 }
	Fluorene Phenanthrene	NA		negative popular a south a school of the state and	<u> </u>	i	. 0	†
	Pyrene	NA NA	,		.		. 0	
	Tetrachloroethylene (Tetrachlorethene)	NA				i	0	1
	Toluene	NA.	17.4		1.34	•	13	ug/L
	Trichloroethylene (Trichlorethene)	NA			-		. 0	1
	Vinyl chloride	NA				i	0	1
	Cyanide, Total	NA					0	
		7						
t C	Pollutants known or believed to be present (and listed in Tables	2F-2, 2F-3,	and 2F-4)					4
	Table 2F-2				•		0	-
<u>i</u>	Bromide						0	
:	Chlorine, Total Residual				-	Na autor man i conserva concer con	0	
	Color				Name of the second seco		0	Ļ
	Fecal Coliform						0	1
	Fluoride	X					0	
	Nitrate-Nitrite						0	•
	Nitrogen, Total Organic		i .		1	Ì	. 0	-
	Oil and Grease	X.				4	0	
	Phosphorus, Total	X			t ·		. 0	
	Radioactivity						0	
	Sulfate	. X	•				0	+
	Sulfite	, <u>X</u>					0	
	Surfactants	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				: *	0	_
	Aluminum, Total			eliste a finish difference as a real finish to a set 5.5% of		4	0	
	Barium, Total	. X		to a second and a discharged the second discharged the second second discharged the second second discharged the second discharged t	<u> </u>	description of the second	0	+
	Boron, Total	X			i	4 . ,	0	Marine Dis
	Cobalt Total	.,	· · · · · · · · · · · · · · · · · · ·	gen a standard familiaria in referendina dell'		4 -200 - 200 - 100	0	
	Iron, Total	^		1			0	
	Magnesium, Total	X	. 			rgaya a sa ana adaya a anada da da da da da da da da da da da da	†	1
· · · · · · · · · · · · ·	Molybdenum, Total	x x				·	0	+
	Manganese, Total Tin, Total	-	 		**************************************	·	0	andreas and a second
·	Titanium, Total					-	. 0	
	The second of th		in the second se		.)	•	I a company of the contract of	made applementary fundation for the
	Table 2F-3 Antimony, Total	X	general community and a second	Endantes commentes co		eğere içir. Tirkinin kirilin ili ili ili ili ili ili ili ili ili	0	egene
	Arsenic, Total		April 1995 - 1995 - 1995	•		agricultura en esta constato de la c	0	
	Beryllium, Total	190	i		.	April 1 Comments	0	4
	Cadmium, Total	Maria - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		grandening of the new schoolship of the		1	0	1
	Chromium, Total						0	
	Copper, Total	. x					0	
	Lead, Total	×					0	
	Mercury, Total	X	1				0	1
	Nickel, Total						0	
	Selenium, Total	1.		4	allanas v ojesas en en en en en en en en en en en en en		0	+
	Silver, Total			-	make a company of a contract o		0	
	Thallium, Total	1				1	. 0	1
	Zinc, Total	X					0	
	Cyanide, Total						0	1
	Phenois, Total	X			-	A CONTRACTOR OF THE CONTRACTOR	0	<u> </u>
	Acrolein	}					0	
	Acrylonitrile						0	
	Benzene						0	
	Bromoform	1				į	0	1
•	Carbon Tetrachloride						0	
	Chlorobenzene						. 0	
į	Chlorodibromomethane	i i			1		0	
,	Chloroethane				,		. 0	
	2-Chloroethylvinyl Ether	1			1	i	0	

			Max '	Values	Avg V	/alues	1	
	Pollutant	:		Flow-		Flow-	No. Storm	
	T OHIOCONE	Believed		Weighted		Weighted	Events	
	A CONTRACTOR OF THE PROPERTY O	Present	Initial Grab	Composite	Initial Grab	Composite	Sampled	Units
1 1	Chloroform	ţ	1	I			0	i
1	Dichlorobromomethane 1.1-Dichloroethane	Ì	1	i			8	1
	1,2-Dichloroethane	x					8	
		. ^					ο.	
	1,1-Dichloroethylens 1,2-Dichloropropane						0	
	1,3-Dichloropropylerie						0	
	Ethylbenzene	×					ā	
	Methyl Bromide	. ^	1	Į.	. !		0	i
	Methyl Chloride	1	1	1	•		0	1
	Methylene Chloride						Ö	
1.1	1,1,2,2,-Tetrachloroethane		1	1	1		0	1
, ,	Tetrachloroethylene	'		ī			0	1
	Toluene	x					0	
	1,2-Trans-Dichloroethylene	•					0	
	1,1,1-Trichloroethane						0	
	1,1,2-Trichloroethane						0	
	Trichloroethylene						0	
	Vinyl Chloride						0	
	2-Chlorophenol		1	•			0	1
	2,4-Dichlorophenal	en angele a una section de la communication p romise de la communication de la commun			i	nonmanuscripto o reference e constituti	0	
	2,4-Dimethylphenol		•				0	
	4,6-Dinitro-O-Cresol						0	
	2,4-Dinitrophenol		•				0	
	2-Nitrophenol						0	
1,000	4-Nitrophenol						0	
	p-Chioro-M-Cresol						0	
	Pentachlorophenol		Į.		1		0	-
	Phenol	, X					0	
	2,4,6-Trichlorophenol	Ì		1			0	
	2-methyl-4,6 dinitrophenol						0	
	Acenaphthene						0	
	Acenaphthylene						0	
	Anthracene	1				:		i
20211230000000	Benzidine	manus autore ex monotorio e mente compositorio.	<u> </u>	i •			0	·
	Benzo(a)anthracene		•	 			0	
	Benzo(a)pyrene	Name and the second second second second second second second second second second second second second second		•			-	
	3,4-Benzofluoranthene		i i	•	•		0	<u> </u>
	Benzo(ghi)perylene		.	•	·		0	
	Benzo(k)fluoranthene	-		-	·		0	
	Bis(2-chloroethoxy)methane		: •		ļ		the contract of the contract o	
ARCHITECTURE AND ADDRESS OF THE PARTY OF THE	Bis(2-chloroethyl)ether		<u> </u>	·			0	
	Bis(2-chloroisopropyl)ether			 	ļ		0	
	Bis(2-ethylyhexyl)phthalate		.				0	
	4-Bromophenyi Phenyi Ether			}	<u> </u>		0	-
mount newsper con-	Butylbenzyl Phthalate	·	<u> </u>	<u>+</u> -			0	+
	2-Chloronaphthalene		ŧ				0	+
2 8	4-Chlorophenyl Phenyl Ether	and the same of th	1	1			0	-
	Chrysene Dibenzo(a,h)anthracene	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i	1	ļ		n o	1
	1,2-Dichlorobenzene	4	1	1	1		Ô	1
	1,3-Dichlorobenzene						۵	
	1,4-Dichlorobenzene			,			ō	
	3,3'-Dichlorobenzidine	1	1				0	
	Diethyl Phthalate	1	1	1	Į.		0	1
	Dimethyl Phthalate	x					0	
	Di-N-Butyl Phthalate	^					0	
	2,4-Dinitrotoluene	1	1	1			0	1
	2,6-Dinitrotoluene		÷	t	<u> </u>		0	+
	Di-N-Octyphthalate		†··· ··· ·	 	†		0	1
	1,2-Diphenylhydrazine (as Azobenzene)		4 4		 		0	
			*		 		0	+
1 1	Fluroranthene	-		1	1		0	1.
	Fluorene						V A	
	Hexachlorobenzene						U	
	Hexachlorobutadiene						Ų	
1	Hexachloroethane			1	1		.0	1
1 1	indeno(1,2,3-cd)pyrene Isophorone	·		ļ		p	0	1

			Max	Max Values		'alues	-i	1
	Pollutant	Believed		Flow- Weighted		Flow- Weighted	No. Storm Events	
		Present	Initial Grab	Composite	Initial Grab	Composite	Sampled	Units
-	Napthalene						0	ì
	Nitrobenzene						. 0	
- 1	N-Nitrosodimethylamine						0	4
	N-Nitrosodi-N-Propylamine		*				0	
	N-Nitrosodiphenylamine		•	:	i		0	
	Phenanthrene						0	
	Pyrene						0	
	1,2,4-Trichlorobenzene						0	
1	Aldrin			1		1	0	1
	Alpha-BHC						0	*** **** ***** *
			•		#************************************		0	•
ì	Beta-BHC	•	•	7			, 0	
	Gamma-BHC		4	+			0	
	Delta-BHC						·	
	Chlordane				; *		🍻 a regional contract of	
	4,4'-DDT			· •	Ga ndalas de la composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition		0	
	4,4'-DDE	·	A	ļ			0	
	4,4'-DDD		****		·		0	
-	Dieldrin			· 1		and the second s	0	L
	Alpha-Endosulfan						0	İ
	Beta-Endosulfan	·					0	1
	Endosulfan Sulfate	·····	de la companya del companya de la companya del companya de la comp			***************************************	0	1
• •	Endrin	İ	•	1	**		0	1
	Endrin Aldehyde	L		<u> </u>			0	1
		·		·	<u> </u>	***************************************	0	
	Heptachlor	 		4			0	
	Heptachlor Epoxide	i •,		<u> </u>	***************************************		0	
	PCB-1242	· •		ļ	,		Albania de la compania del compania de la compania del compania de la compania del la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania de la compania della compania de la compania de la compania della compania de la compania della compania d	
	PCB-1254	·		: ************************************	. , ,		0	
;	PCB-1221		Anna esta esta esta esta esta esta esta est	- 			0	
	PCB-1232			1			0	
-	PCB-1248						0	
	PCB-1260		4		***************************************		0	
	PCB-1016	÷ ···	a Basana aanatana serent serenti maanatan 999099	***********************	***************************************	1	0	
	Toxaphene	ļ					0	
1	able 2F-4						· · · · · · · · · · · · · · · · · · ·	o k to
- '	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT		. ∳. c. a. a. a. a. a. a. a. a. a. a. a. a. a. a. a.	†	£.,,	against a contract to the contract of the cont	0	- Commercial and a second beautiful
	Asbestos	x	•	*···	Mark of Control of the Control		. 0	******
	Acetaldehyde	·		· · · · · · · · · · · · · · · · · · ·	open and the same statement assessment		0	·
	Allyl alcohol		i		4	ļ	about the second	į
	Allyl chloride	į		}	* -	÷	. 0	1
	Amyl acetate	i			•	: •	0	
	Aniline					•	0	<u> </u>
	Benzonitrile			1		İ	0	<u>.</u>
	Benzyl chloride	X	*			·	0	
-+-	Butyl acetate	franconnament construction					0	
	The second secon	•	• • • • • • •	*	†	•	0	†
	Butylamine	÷		andigenesis in the security of the contract of	†		0	1
	Carbaryl	W 112101010-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		ngan, a garan ay la an atanàna na amin'ny	<u> </u>	·	0	adding an over
	Carbofuran		 		··		. 0	*
4	Carbon disulfide	******	1			ļ		
	Chlorpyrifos	<u>.</u>	 	•		L	0	
	Coumaphos		<u> </u>				4	4
	Cresol	<u>.</u>					0	
	Crotonaldehyde	<u>.</u>			<u>.</u>		0	
	Cyclohexane	X	1		1	1	0	-
- 1	2,4-D (2,4-Dichlorophenoxyacetic acid)		•	!		!	0	4
-+-	Diazinon	·				1	0	
-+	Dicamba			in a construction		·	0	•
	to design the control of the control						0	
	Dichlobenil	\$		4	4	-	. 0	
1	Dichlone	ļ			 	-		
	2,2-Dichloropropionic acid		·				<u> </u>	4
	Dichlorvos	4	alana anno con a con con con con con con con con con con	ak	<u> </u>	•	0	
i	Diethyl amine		1		1		0	
	Dimethyl amine	*************	1			:	0	
	Dinitrobenzene						0	4
1			1	•	! · · · · · · · · · · · · · · · · · · ·	1		•
÷	Diquat	•		·		÷		
Ċ	Disulfoton					<u> </u>		endelle de la la la la la la la la la la la la la
	Diuron		: 	.i		4	and the second s	
	Epichlorohydrin			<u> </u>		<u>.</u>	0	il Marie a company of the company of
	Ethion				1		0	anima e e e e e e e e e e e e e e e e e e e
	Ethylene diamine	X		T	Andrew Control of the		. 0	,

		i	Max Value		Avg \	/alues	4	1
	D-H			Flow-		Flow-	No. Storm	;
	Pollutant	Believed		Weighted	1	Weighted	Events	
		Present	Initial Grab	Composite	Initial Grab	Composite	Sampled	Unit
	Ethylene dibromide				-	÷	0	
•	Formaldehyde	Х	•	i	•		0	
eserves de s	Furfural		***************************************			 	0	
	Guthion			-			0	
********	Isoprene		**************************************	gann			0	
	Isopropanolamine		• · · · · · · · · · · · · · · · · · · ·	december to an analysis of the con-	·	· · · · · · · · · · · · · · · · · · ·	0	
*****	Kelthane			<u>*</u>	***************************************		0	
	Kepone			t	†····		0	
	Malathion	-		4	+		0	
	The state of the s			÷			0	
	Mercaptodimethur	+		*************	·		0	erentana and an artist and an artist and an artist and an artist and an artist and an artist and artist artist and artist artist and artist artist and artist artist and artist artis
- Parameter	Methoxychlor		•	1			. 0	
	Methyl mercaptan	x		.			. 0	
	Methyl methacrylate			<u> </u>			. 0	
	Methyl parathion		 	•	·		*	
	Mevinphos			ļ		·	. 0	
	Mexacarbate			İ			. 0	
	Monoethyl amine						. 0	
	Monomethyl amine	X		·	**************************************		0	
	Naled				•	.	0	
	Napthenic acid			i +	*************	·	0	
	Nitrotoluene						0	
	Parathion			: 			0	
	Phenoisulfonate	X				Landania de Companya	0	
	Phosgene	X			*		0	
	Propargite		i				0	
Ī	Propylene oxide						0	
	Pyrethrins						0	
	Quinoline						0	
	Resorcinol				•		0	
	Stronthium						0	
	Strychnine		!				0	
	Styrene	X	·				0	
	2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)			-	4		0	
	TDE (Tetrachlorodiphenyl ethane)						0	
um rooma f oor	2,4,5-TP [2-(2,4,5-Trichlorophenoxy) propanoic acid]				•		0	***
	Trichlorofan		 		*		0	
	Triethylamine	X			*		0	
	Trimethylamine	-					0	personal and the first dec
	Uranium						0	
	Vanadium				•		0	h
	Vinyl acetate	х		·	**************************************		0	
	Xylene	X					0	
	AND THE RESERVE AND ADDRESS OF THE PARTY OF			.			0	
	Xylenal Zirconium						0	

			Max Values		AVg \	/alues	4	
	Dullutant		i	Flow-		Flow-	No. Storm	
	Pollutant	Believed		Weighted		Weighted	Events	
		Present	Initial Grab	Composite	Initial Grab	Composite	Sampled	Units
t A	Required Parameters		4	,	1			
	O&G	NA	0		0		. 11	mg/L
	BODS	NA					. 0	mg/L
	COD	NA	452		53.2	•	13	mg/L
	TSS	NA	132		49.7		13	mg/L
	Total Nitrogen	NA NA	:				0	mg/L
	Total Phosphorus	NA		AND DESCRIPTION OF SHAPE OF SH		A STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF T	0	mg/L
	pH	NA	8.0	•	7.3		13	SU
Add to the or	pr					gramma analogo and an an an an an an an an an an an an an	j	
	Pollutants included in facility effluent guidelines, or listed in NP	DFS nermit	for process w	astewater (i.e	Outfalls 001	and A01)		anggana () () () () ()
8		NA NA	142		27.1		13	mg/L
	TOC	NA		•	,		0	
	Ammonia		â	•		· · · · · · · · · · · · · · · · · · ·	0	para de como como de la como de la como de la como de la como de la como de la como de la como de la como de l El
	TKN	NA NA		·			4	
	Nitrate-Nitrite	NA	Accessed to the control of the contr		Beatronia de antes de 1911 de 1919		0	
	Fluoride	NA					0	
	E.coli	NA		No.			0	
	Chromium, Total	NA		p			0	
	Copper, Total	NA	***************************************	•	•		0	
	Charles and the second	NA NA	•	 		†	0	
	Lead, Total	NA NA				···	0	
	Nickel, Total	and the second of the second of the second		+	<u></u>	 	. 0	
	Zinc, Total	NA						L
	Perfluoroctanoic Acid (PFOA)							
	Perfluorobutanoic Acid (PFBA)	_						
	Perfluorobutanesulfonamide (PFBSA)							
	Perfluorooctanesulfonamide (PFOSA)							
*****	Perfluorooctanesulfonate (PFOS)	1						
	Perfluorohexanoic Acid (PFHxA)	-		Se	e Attachment	t 2C-4		
		-						
	Perfluoroheptanoic Acid (PFHpA)	-						
	Perfluorobutanesulfonate (PFBS)							
	Perfluorohexanesulfonate (PFHS)	_						
	2-(N-ethyl-PFOSA) acetic acid							
	2-(N-methyl-PFOSA) acetic acid							
						1		
****	Acenanhthene	: NA				1	, 0	
	Acenaphthene Acentonitella		in the second section of the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section in the second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section is a second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section		- 		0	
	Acrylonitrile	NA		· · · · · · · · · · · · · · · · · · ·	A CONTRACTOR OF THE PROPERTY O			
	Acrylonitrile Benzene	NA NA		**************************************	The state of the s		0	
	Acrylonitrile Benzene Carbon tetrachloride	NA NA NA		As an an an an an an an an an an an an an	Laboration of the Control of the Con		0 0	
	Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene	NA NA NA NA		As an an an an an an an an an an an an an			0	
- April - Ar	Acrylonitrile Benzene Carbon tetrachloride	NA NA NA NA			The second secon		0 0 0 0	
	Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene	NA NA NA NA					0 0 0 0	
	Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene	NA NA NA NA					0 0 0 0	
	Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane	NA NA NA NA NA					0 0 0 0	
	Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane	NA NA NA NA NA NA NA					0 0 0 0	
	Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane	NA NA NA NA NA NA NA					0 0 0 0 0	
	Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1-trichloroethane Hexachloroethane 1,1,1-trichloroethane 1,1-dichloroethane	NA NA NA NA NA NA NA NA NA NA NA NA					0 0 0 0 0 0	
	Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1-trichloroethane Hexachloroethane 1,1,1-trichloroethane 1,1,1-dichloroethane 1,1,1-dichloroethane	NA NA NA NA NA NA NA NA NA NA NA NA NA					0 0 0 0 0 0 0	
	Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1-trichloroethane Hexachloroethane 1,1,1-trichloroethane 1,1-dichloroethane	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0	
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	Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane Chloroethane	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0	
	Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane Chloroform	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0	
	Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichlorobenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0	
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	Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1,2-trichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
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	Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1-dichlorobenzene 1,3-dichlorobenzene 1,4-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloroppane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
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	Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Nätrobenzene 2-nitrophenol 4-nitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane Chloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropaplene (cis- and trans-1,3-dichloropropaplene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 2,4-dinitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-dichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane Chloroethane 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methyl chloride (Chloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4,6-dinitrophenol 4,6-dinitrop-o-cresol (2-Methyl-4,6-dinitrophenol)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropopane 1,3-dichloropopane 1,3-dichloropopane 1,3-dichloropopane 1,3-dichloropopane 1,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 4-fidinitro-o-cresol (2-Methyl-4,6-dinitrophenol) Phenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-dichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane Chloroethane 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methyl chloride (Chloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4,6-dinitrophenol 4,6-dinitrop-o-cresol (2-Methyl-4,6-dinitrophenol)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

			Max \	/alues	Avg V	'alues	•	:
	Pollutant		Flow-			Flow-	No. Storm	
	ronutant	Believed		Weighted		Weighted	Events	
		Present	Initial Grab	Composite	Initial Grab	Composite	Sampled	Units
	Diethyl Phthalate	NA	4				0	
	Dimethyl phthalate	NA					o	•
	Benzo(a) anthracene	NA		· · · · · · · · · · · · · · · · · · ·			0	
	Benzo(a) pyrene	NA					0	<u> </u>
	Benzo(b) fluoranthene (3,4-Benzofluoranthene)	NA	·	•			0	
	Benzo(k) fluoranthene	NA	i				0	
	Chrysene	NA NA	<u> </u>	مستند بهست بردر درر در			0	
		a la separation de la companya del companya del companya de la com	+				÷	
	Acenaphthylene	NA		•		· 	0	
	Anthracene	NA NA					in the second contract of the second	
15.000.000	Fluorene	NA NA	، ،	a	: •		0	
	Phenanthrene	NA					0	
	Pyrene	NA		,		~~~	. 0	
	Tetrachloroethylene (Tetrachlorethene)	NA			•		0	
	Toluene	NA	18.6		1.55		12	ug/L
	Trichloroethylene (Trichlorethene)	NA	de construcción			and the second second	0	*************
	Vinyl chloride	NA					0	
	Cyanide, Total	NA					0	
	The state of the s							
t C	Pollutants known or believed to be present (and listed in Table	s 2F-2, 2F-3,	and 2F-4)	1				
	Table 2F-2	T					0	
	Bromide	†	•	* /			0	
	Chlorine, Total Residual	•		!			0	
	Color			Commence and the second			0	
	Fecal Coliform	*	1	:			0	
:	Fluoride	X					0	
		*					0	
+	Nitrate-Nitrite	:	1				0	
	Nitrogen, Total Organic	: 5	:			i	0	
	Oil and Grease	X			*		0	
,	Phosphorus, Total	. х			1	·	. .	1
	Radioactivity		: +	•			0	
	Sulfate	X	<u> </u>	***	i Managaman ang kang pang kanaman na pang managan pangan		0	
	Sulfite	, x	Ļ				0	
	Surfactants	X		<u>.</u>	-		0	
	Aluminum, Total			***************************************			0	
	Barium, Total	X					0	
	Boron, Total	•			:		0	
	Cobalt Total	×		·			0	
	Iron, Total	×		***************************************	•		0	
•	Magnesium, Total	** ****	+				0	
	Molybdenum, Total	X	·		<u> </u>	The second secon	0	
	Manganese, Total	X	-		*		0	•
	Tin, Total	x	•	•			0	
	The state of the s			de la company de			0	
	Titanium, Total	·•	1		 	· · · · · · · · · · · · · · · · · · ·		•
	Table 2F-3		†	#	**************************************		0	
	Antimony, Total	X	 	•	 		0	
	Arsenic, Total		 	*****			<u> </u>	÷
	Beryllium, Total						. 0	ļ
	Cadmium, Total	İ	i			i i	. 0	ł
	Chromium, Total						.0	
	Copper, Total	X					0	
	Lead, Total	X					0	5
	Mercury, Total	X					0	and the second
	Nickel, Total						.0	
	Selenium, Total						0	
	Silver, Total		Maria de la composición del composición de la composición de la composición del composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la comp				0	
	Thallium, Total		ţ				0	
	Zinc, Total	X				•	0	
	Cyanide, Total	•					0	
		x			1		0	1
	Phenois, Total			-	†	,	0	+
	Acrolein	İ		1	i	*	1 -	
	Acrylonitrile						0	
	Benzene						0	
	Bromoform	i	i			- Comment	0	I
	Carbon Tetrachloride						0	
	Chlorobenzene						0	
	Chlorodibromomethane	-					0	
	Chloroethane				•	*	. 0	
	2-Chloroethylvinyl Ether				ł .	1	. 0	i

			Max \	/alues	Avg \	/alues		1
	Parli de la			Flow-	!	Flow-	No. Storm	
	Pollutant	Believed		Weighted		Weighted	Events	
		Present	Initial Grab	Composite	Initial Grab	Composite	Sampled	Units
	Chloroform			Access to the second se			0	
	Dichlorobromomethane				:		0	
,	1,1-Dichloroethane						0	
	1,2-Dichloroethane	x					.0	
	1,1-Dichloroethylene						0	
							0	
	1,2-Dichloropropane		•				o.	
	1,3-Dichloropropylene	x					0	
	Ethylbenzene	. ^	,			9	. 0	ì
1	Methyl Bromide	1					, ,	ł
	Methyl Chloride						Š	
	Methylene Chloride					1 .	, ,	
1	1,1,2,2,-Tetrachloroethane	1				i		į
	Tetrachloroethylene							
	Toluene	X						
	1,2-Trans-Dichloroethylene						0	
	1,1,1-Trichloroethane						0	
	1,1,2-Trichloroethane						0	
	Trichloroethylene						0	
	Vinyl Chloride						0	
-	2-Chlorophenol				4		0	
	2,4-Dichlorophenol			- Artistante de la companio del companio del companio de la companio del companio del companio de la companio della companio de la companio de la companio de la companio de la companio de la companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio della companio d			0	
,	2,4-Dimethylphenol	*					0	
	4,6-Dinitro-O-Cresol						0	
	2,4-Dinitrophenol						0	
							0	
	2-Nitrophenol						٥	
	4-Nitrophenol		:	!		į	. 0	1
-	p-Chloro-M-Cresol		 		•	 	0	
	Pentachlorophenol	u	1			1	0	1
,	Phenol	X				i		1
	2,4,6-Trichlarophenal		1	į		1	Ū	1
	2-methyl-4,6 dinitrophenol						0	
	Acenaphthene						0	
	Acenaphthylene						0	
	Anthracene			4			0	
!	Benzidine				t. Anna anna anna anna anna anna anna anna	i.	0	
-	Benzo(a)anthracene					i	. 0	
1	Benzo(a)pyrene					1	0	1
+	3,4-Benzofluoranthene		-year man management consiste (i. e. f.)				0	1
+	Benzo(ghi)perylene		• · · · · · · · · · · · · · · · · · · ·			i	0	
	Benzo(k)fluoranthene		**** ***** ***** **** **** **** **** ****	\$100 A. A. A. A. A. A. A. A. A. A. A. A. A.	News Committee of the C		0	T
+	Bis(2-chloroethoxy)methane					Andrew Control of the	0	***************************************
-	- Particular Control of the Control		j	<u> </u>			0	
	Bis(2-chloroethyl)ether	and the second second second second	description of		kees a selfer o		· 0	
	Bis(2-chloroisopropyl)ether		•	<u> </u>		 		t
	Bis(2-ethylyhexyl)phthalate		*	4 ************************************	Marine a reason of a contract of the contract		. 0	d
	4-Bromophenyl Phenyl Ether				4		, , , ,	
	Butylbenzyl Phthalate		<u> </u>		*	ļ	,	+ ~~~~~~~~
_	2-Chloronaphthalene	. •		4			<u> </u>	
- 1	4-Chlorophenyl Phenyl Ether	i	1			1	0	1
	Chrysene					\$.0	7
1	Dibenzo(a,h)anthracene					!	0	į
•	1,2-Dichlorobenzene						0	
	1,3-Dichlorobenzene						0	
	1,4-Dichlorobenzene						0	
1	3,3'-Dichlorobenzidine					;	0	1
ŀ	Diethyl Phthalate						:0	
	Dimethyl Phthalate	x					0	
	Di-N-Butyl Phthalate						0	
1							0	1
	2,4-Dinitrotoluene			<u> </u>		<u> </u>	0	
	2,6-Dinitrotoluene		•	·	+	4	0	1
1	Di-N-Octyphthalate		••••	·	***************************************		4 a a can and a can	+
	1,2-Diphenylhydrazine (as Azobenzene)			<u> </u>		4	0	
	Fluroranthene				1	1	0	1
٠	Fluorene						O.	
	Hexachlorobenzene						0	a Paris
	Hexachlorobutadiene						0	
	Hexachloroethane						C	
1	Indeno(1,2,3-cd)pyrene				1	!	0	
- 1								

		Max Values			Avg V	alues		:
	Dallukana	E common common common administration		Flow-	Flow-		No. Storm	
	Pollutant	Believed		Weighted		Weighted	Events	
		Present	Initial Grab		Initial Grab	_	Sampled	Units
Ī	Napthalene	historia de la como de				and the second second second second second	0	1
	Nitrobenzene						0	
Ì	N-Nitrosodimethylamine						0	
	N-Nitrosodi-N-Propylamine						0	
1	N-Nitrosodiphenylamine			b			0	
•	Phenanthrene						0	1
	Pyrene						0	
	1,2,4-Trichlorobenzene						0	
	Aldrin		1		i		0	
	The second secon	**********	 					
	Alpha-BHC		<u> </u>				0	I Marketon augusta i respectant
•	Beta-BHC Gamma-BHC				1		. 0	,
			÷				0	
	Delta-BHC						0	
- 4.	Chlordane						0	
	4,4'-DDT	arment designation of the contract of					0	
	4,4'-DDE				n comment and a second complete		0	·
	4,4'-DDD						0	
	Dieldrin						0	
	Alpha-Endosulfan			,			0	
	Beta-Endosulfan				manus a responsible construction of the constr		0	
	Endosulfan Sulfate						0	
- !	Endrin						0	
- †-	Endrin Aldehyde				maare was in the market in the set		0	
	Heptachlor						0	
	Heptachlor Epoxide		,			energia de la composició de la composici	0	
	PCB-1242	era reer in a rich in in	•				0	
+ +	PCB-1254						0	
and the second second	PCB-1221						and the second s	paration of the second
	CONTRACTOR OF THE PROPERTY OF	*	•		.,.,		0	-
	PCB-1232						0	managa on the second and
	PCB-1248			1			0	
	PCB-1260						0	·
	PCB-1016		•	1 1			0	hos
	Toxaphene		marina da companya da companya da companya da companya da companya da companya da companya da companya da comp		and the second second second		0	-
Ţ	able 2F-4							,
	Asbestos				gangan an angan apadamanan an an ga		0	Name and the second of the second of the second of the second of the second of the second of the second of the
	Acetaldehyde	X					0	
	Allyl alcohol		****				0	
	Allyl chloride		• · · · · · · · · · · · · · · · · · · ·				0	
:	Amyl acetate				•		0	
jegovenen † esen	Aniline					***************************************	0	
***	Benzonitrile	THE THE PERSON NAMED IN TAXABLE PARTY.			and the second second		0	
	Benzyl chloride	X	en consistent de la companya de la c		and the second s		0	
	Butyl acetate		ker reserve e en en en en en en en en en en en en		-		0	
	Butylamine			···· ·			0	
4 -	Carbaryi	· · · · · · · · · · · · · · ·					0	
	to the contract of the contrac			i			The second second second	
	Carbofuran		·				0	
	Carbon disulfide		•				0	
	Chlorpyrifos			***************************************		· · · · · · · · · · · · · · · · · · ·	0	
1	Coumaphos						0	
- 4.	Cresol						0	
	Crotonaldehyde	***************************************					0	
	Cyclohexane	X	1		1	;	0	
1	2,4-D (2,4-Dichlorophenoxyacetic acid)						0	d
	Diazinon						0	
	Dicamba			and the second second			0	
1	Dichlobenil	***************		a , and the extreme and a		AND THE RESERVE AND THE PROPERTY OF THE PARTY.	0	
	Dichlone		· · · · · · · · · · · · · · · · · · ·			+	0	
+	2,2-Dichloropropionic acid			· · · · · · · · · · · · · · · · · · ·			0	
	Dichlorvos						0	
	Diethyl amine						0	to a series of the manufacture of
	Dimethyl amine						0	
	Dinitrobenzene		;				0	
	Diquat					:	0	
	Disulfoton					•	0	
	Diuron					+	0	
***	Epichlorohydrin				. 1		0	
+-	Ethion						0	
1					1	1	~	

,	Max Values Avg Values							
			Flow-		Flow-	No. Storm		
Pollutant	Believed		Weighted		Weighted	Events		
	Present	Initial Grab	ab Composite	Initial Grab	Composite	Sampled	Units	
Ethylene dibromide		;				0		
Formaldehyde	X	•		`	: L		and the second	
Furfural	grange and a district of the second		***************************************			0	·	
Guthion			•••			0	4	
Isoprene		: · · · · · · · · · · · · · · · · · · ·			I	0		
Isopropanolamine			1			0		
Kelthane	***************************************	1				0		
Kepone						0		
Malathion	enemania en frantsista (n. 1944). 1				1	0		
Mercaptodimethur		1				0		
Methoxychlor]				0	1	
Methyl mercaptan			1		Anna a series	0		
Methyl methacrylate	. X			and the second s	4	0	<u></u>	
Methyl parathion	1	T				0	÷	
Mevinphos		1	I			0		
Mexacarbate						0		
Monoethyl amine					describe control of the control	0		
Monomethyl amine	×		1			0	<u> </u>	
Naled		region and control of the control of			-	0		
Napthenic acid			1			. 0	Lucione	
Nitrotoluene						0	1	
Parathion	•				4	0	when his riving to the state of the	
Phenoisulfonate	X					0		
Phosgene	X					0		
Propargite					-	0	ļ	
Propylene oxide						0	-	
Pyrethrins					-	0		
Quinoline						. 0	i Aprilia de la composición dela composición de la composición de la composición dela composición dela composición dela composición de la composición de la composición de la composición de la composición de la composición dela composición del composición dela composición dela composición dela composición dela composición dela composición dela composición dela composició	
Resorcinol		s de montre de la constante de la constante de la constante de la constante de la constante de la constante de	The second second second second			0		
Stronthium		······································				0	i.	
Strychnine		**************************************				0		
Styrene	X				***************************************	. 0		
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)				-	Marketon and the control of the cont	. 0		
TDE (Tetrachlorodiphenyl ethane)						0		
2,4,5-TP [2-(2,4,5-Trichlorophenoxy) propanoic acid]					4,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0		
Trichlorofan		-				0		
Triethylamine	X	The state of the s				0	Mariano de el el el el	
Trimethylamine		A STATE OF THE PROPERTY OF THE			a a constant of the constant o	0	1	
Uranium		•				0	-	
Vanadium		***************************************		-		0		
Vinyl acetate	X			page. It is not represent the management	1	0	and the second	
Xylene	X					0	all and the second	
Xylenol			ingen i de de de de de de de de de de de de de			0		
Zirconium					· · · · · · · · · · · · · · · · · · ·	0		

				Max	/alues	AVg V	/alues			
		Pollutant	Believed Present	Initial Grab	Flow- Weighted Composite	Initial Grab	Flow- Weighted Composite	No. Storm Events Sampled	Units	
rt A	Re	equired Parameters								
		O&G	NA	0		0	t	12	mg/L	
		BOD5	NA	•	·		•	0	mg/L	
		COD	NA	445	•	57.5		13	mg/L	
	<u> </u>	TSS	NA	141		42.3		13 0	mg/L	
	-	Total Nitrogen	NA NA		·			0	mg/L mg/L	
e nagrajement	-	Total Phosphorus	NA NA	8.0		7.3		13	SU	
	ļ.,	PH	NA NA	8.0	L	7.3		4.9		
	-	ollutants included in facility effluent guidelines, or listed in N	DDES narmit	or process w	stewater (i.e.	Outfalls 001	and A01)			
rt B	PC	TOC	NA NA	141	and worker times	26.1		13	mg/L	
		Ammonia	NA	•				0		
	÷	TKN	NA	*********************				0	LLD INVIDE NO.	
garangaga arabah	+	Nitrate-Nitrite	NA					0		
	+	Fluoride	NA					0		
dia a sindi a personali	-	E.coli	NA	-				0		
	+-	Chromium, Total	NA					0		
	1	Copper, Total	NA	# management of the control of the c	*			0		
	+	Lead, Total	NA					0		
		Nickel, Total	NA					0		
	1	Zinc, Total	NA				1	0		
		Perfluoroctanoic Acid (PFOA)								
	1	Perfluorobutanoic Acid (PFBA)								
		Perfluorobutanesulfonamide (PFBSA)								
	T	Perfluorooctanesulfonamide (PFOSA)								
di ota naan		Perfluorooctanesulfonate (PFOS)								
		Perfluorohexanoic Acid (PFHxA)			Sec	Attachment	t 2C-4			
	Τ	Perfluoroheptanoic Acid (PFHpA)								
MARKET THE	T	Perfluorobutanesulfonate (PFBS)								
	1									
	+	Perfluorohexanesulfonate (PFHS)								
	+	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid								
		THE RESERVE OF THE PROPERTY OF		·				, <u>.</u>		
		2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene	NA NA					0		
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile	NA.	4				0		
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene	NA NA					0	BEAUTY CONTRACTOR OF THE PARTY	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride	NA NA NA					0 0 0		
		2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene	NA NA NA					0 0 0		
		2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene	NA NA NA NA					0 0 0 0		
		2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene	NA NA NA NA NA					0 0 0 0 0		
		2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane	NA NA NA NA NA NA					0 0 0 0 0		
		2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane	NA NA NA NA NA NA NA NA NA					0 0 0 0 0 0		
		2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane Hexachloroethane Hexachloroethane	NA NA NA NA NA NA NA NA NA NA NA					0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA} acetic acid 2-{N-methyl-PFOSA} acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane Hexachloroethane 1,1,1-dichloroethane	NA NA NA NA NA NA NA NA NA NA NA					0 0 0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-dichloroethane 1,1,1-dichloroethane 1,1,2-trichloroethane	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-triichloroethane Hexachloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane Chloroform	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane Chloroethane Chloroform 1,2-dichlorobenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene 1,1-1-trichloroethane 1,1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA} acetic acid 2-{N-methyl-PFOSA} acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-drichloroethane 1,1,2-drichloroethane 1,1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA} acetic acid 2-{N-methyl-PFOSA} acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1-trichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,2-trichloroethane Chloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,1-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloroppopane	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,2-trichloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenoi	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA} acetic acid 2-{N-methyl-PFOSA} acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenoi Ethylbenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA} acetic acid 2-{N-methyl-PFOSA} acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-dichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1-dichlorobenzene 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenoi Ethylbenzene Fluoranthene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA} acetic acid 2-{N-methyl-PFOSA} acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-trans-dichloropengene 1,3-dichloropropalene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenoi Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA} acetic acid 2-{N-methyl-PFOSA} acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenoi Ethylbenzene Fluoranthene Methylene chloride (Dlchloromethane) Methyl chloride (Chloromethane)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA} acetic acid 2-{N-methyl-PFOSA} acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-trans-dichloroethylene (trans-1,3-dichloropropene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 1,2-dimethylphenoi Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Methyl chloride (Chloromethane)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA} acetic acid 2-{N-methyl-PFOSA} acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane Chloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (trans-1,2-dichloroethene) 1,2-trans-dichloroethylene (trans-1,3-dichloropropene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenoi Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA} acetic acid 2-{N-methyl-PFOSA} acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane Hexachloroethane 1,1-dichloroethane Chloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropale 1,3-dichloropropale 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenoi Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenoi	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA} acetic acid 2-{N-methyl-PFOSA} acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-trans-dichloroethylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenoi Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methylene chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenoi 4-nitrophenoi	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-1-trichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-trans-dichloroethylene (trans-1,3-dichloropropane) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenoi Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Mexhyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Naphthalene Nitrobenzene 2-nitrophenoi 4-nitrophenoi 2,4-dinitrophenoi	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenoi Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
		2-{N-ethyl-PFOSA) acetic acid 2-{N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-1-trichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-trans-dichloroethylene (trans-1,3-dichloropropane) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenoi Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Mexhyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Naphthalene Nitrobenzene 2-nitrophenoi 4-nitrophenoi 2,4-dinitrophenoi	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		

			Max	Values	Avg \	/alues	-4	
	Mar Hardania A			Flow-		Flow-	No. Storm	
	Pollutant	Believed		Weighted	****	Weighted	Events	
		Present	Initial Grab	Composite	Initial Grab	Composite	Sampled	Units
	Diethyl Phthalate	NA			:		0	
	Dimethyl phthalate	NA			•••	•	0	
	Benzo(a) anthracene	NA			•		. 0	ļ
	Benzo(a) pyrene	NA	· · · · · · · · · · · · · · · · · · ·		• • • • • • • • • • • • • • • • • • •		0	<u> </u>
	Benzo(b) fluoranthene (3,4-Benzofluoranthene)	NA					0	
	Benzo(k) fluoranthene	NA		·	*		0	
	Chrysene	, NA	•	************************************	••••••••••••••••••••••••••••••••••••		0	
	Acenaphthylene	, NA	4	····		: }	0	i Maria di maria di maria di maria di maria
	Anthracene	NA			f #www.ii.com/solices/	* 2 ··· · · · · · · · · · · · · · · · · ·	0	ļ
	Fluorene	NA		•			0	and one was an or the second of the second
	Phenanthrene	. NA	1			•	. 0	*
*******	Pyrene	, NA	.	•			0	aka masa menang
	Tetrachloroethylene (Tetrachlorethene)	NA	1		4		. 0	.i
	Toluene	NA	17.8	.	1.92		13	ug/L
	Trichloroethylene (Trichlorethene)	NA	ļ	i	*****		0	<u>.</u>
	Vinyl chloride	NA NA	4		1	namento someon telebro al contel·teletti		
	Cyanide, Total	NA		¥,	¥			apartamata - conserva em
	The state of the s	. 35 3 35 3	3E A)	-	· see an assemble consistent of the con-			
t C	Pollutants known or believed to be present (and listed in Tables	ZF-2, ZP-3,	ellu ZF*4)	•			0	minimum or or
	Table 2F-2		uka anan oo soon asaan markii ba	Langue	#enclares of control of the second		'n	*
	Bromide Chloring Total Residual				•		0	
	Chlorine, Total Residual	÷			* ***********************************		0	Anna and the state of the state
	Color			<u> </u>	+		0	enders de entrada con en 1911 e
	Fecal Coliform Fluoride	: X				:	0	
		^					٥	
	Nitrate-Nitrite					i i	0	
	Nitrogen, Total Organic	. x			ì	ŧ	0	1
	Oil and Grease	X					ō	
	Phosphorus, Total	^			1		. 0	1
	Radioactivity Sulfate	×	ļ	<u> </u>		interpretation and a contract of	0	
	Sulfite	<u>x</u>			ł	•	0	
	Surfactants	<u>x</u>	†			•	. 0	andre conservation of the
	Aluminum, Total		*****				0	
	Barium, Total	X				• ······ · · · · · · · · · · · · · · ·	0	and the second second
	Boron, Total	*	1			******	0	
	Cobalt Total	X	**************************************		1	•	0	releasers with 11
	Iron, Total	X					0	
	Magnesium, Total		1		İ	1	0	
	Molybdenum, Total	X				demonstration and abilities are all	0	
	Manganese, Total	X					0	- Composition of the composition
	Tin, Total	X	- 	• • • • • • •	İ		0	
	Titanium, Total)				0	
	Table 2F-3				***************************************	American control of the	i Mariana	
	Antimony, Total	X	1		1	·	0	
	Arsenic, Total		A. A. A. A. A. A. A. A. A. A. A. A. A. A	4			0	4
	Beryllium, Total		1				0	
	Cadmium, Total	* *			1	1	0	
	Chromium, Total						0	
	Copper, Total	X					0	
	Lead, Total	X					0	
	Mercury, Total	, X			i,		; 0	t
	Nickel, Total					ı	0	
	Selenium, Total			į	•		. 0	
	Silver, Total		· Princes verning		4		0	
	Thallium, Total			1			0	:
	Zinc, Total	X					0	
	Cyanide, Total						0	1
	Phenois, Total	X			:	<u> </u>	. 0	
	Acrolein			į	1	İ .	0	i
	Acrylonitrile						0	
	Benzene						0 .	
	Bromoform		ŧ		!		0	
	Carbon Tetrachioride			•			. 0	
	Chlorobenzene						. 0	
	Chlorodibromomethane			1	-		0	
	Chloroethane				*		0	
	2-Chloroethylvinyl Ether		1			-	0	

Poliutant Poli			1	Max \	/alues	Ave V	'alues		
Chicedom Chicedom Chicadomomenitane Chic		Particolor of			Flow-		Flow-		
Cickordorm Dichioroschane 1,1-Dichioroschane	Pollutant	1	· ·			-			
Dischlorostromonethane 1,3-Dichlorostromone 1,3-Dichlorostromone 1,3-Dichlorostromone 1,3-Dichlorostromone 1,3-Dichlorostromone 1,3-Dichlorostromone 1,3-Dichlorostromone 1,3-Dichlorostromone 1,3-Dichlorostromone 1,3-Dichlorostromone 1,3-Dichlorostromone 1,3-Dichlorostromone 1,3-Dichlorostromone 1,3-Dichlorostromone 1,3-Dichlorostromone 1,3-Dichlorostromone 1,3-Dichlorostromone 1,3-Dichlorostromone 1,3-Trans-Dichlorostromone 1,3-Trans-	meneggen, or a section of		Present	Initial Grab	Composite	Initial Grab	Composite	****	Units
J. 3-Dichloroschuse 1.3-Dichloroschydene 1.3-Dichl		•	1	{ 1					
1.2-Dichlorosthylene 1.3-Dichlorosthylene 1.3-Dichloropropolene 1.3-Dichloropropolene 1.3-Dichloropropolene 1.3-Dichloropropolene 1.3-Dichloropropolene 1.3-Dichloropropolene 1.3-Dichloropropolene 1.3-Dichloropropolene 1.3-Dichlorosthylene 1				ł				0	
1.4-Dichloropropries 1.3-Dichloropropries		X					0		
1,-0.0ch/lorograpy/eine X						•		0	
1,-5-Christopoprase		1,2-Dichloropropane						0	
temporesses Methyl Foroidic Methyl Foroidic Methyler Chlorids Methyler Chlorids Methyler Chlorids Methyler Chlorids Methyler Chlorids 1,1,2,7-Tereschlorosthane Tereschlorosthylere 1,2,1-Trans-Olchorosthylere 1,1,1-Trichiorosthylere 1,1,1-Trichiorosthylere 1,1,1-Trichiorosthylere 1,1,1-Trichiorosthylere 1,1,1-Trichiorosthylere 1,1,1-Trichiorosthylere 1,1,1-Trichiorosthylere 1,1,1-Trichiorosthylere 1,1,1-Trichiorosthylere 1,1,1-Trichiorosthylere 1,1,1-Trichiorosthylere 1,1-Trichiorosthylere							-		
Methyl Childrich 1,1,2,7_Fetrachirorithme 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	1		X						
Methylene Chloride 1.1.1.2.7 trans-Dickhorosthylene Tolusne 1.2.7 trans-Dickhorosthylene 1.1.1.1 'Trickhorosthane 1.1.1.1 'Trickhorosthane 1.1.1.1 'Trickhorosthane 1.1.1.1 'Trickhorosthane 1.1.1.1 'Trickhorosthane 1.1.1.1 'Trickhorosthane 1.1.1.1 'Trickhorosthane 1.1.1 'Trickhorosthane 1.1.1 'Trickhorosthane 1.1.1 'Trickhorosthane 1.1.1 'Trickhorosthane 1.2.4 Dickhorophenol 2.4 Dickhorophenol 2.4 Dickhorophenol 3.4 'Dickhorophenol 3.4 'Dickhorophenol 3.4 'Nitrophenol 4. Nitrophenol 4. Nitrophenol 5. Nitrophenol 5. Nitrophenol 7. Nitrophenol				İ	ĺ	1		1	
1.1,2,2 - Tetrachiorosthaine Totlane X					•			O	
Testechorocethysine 1.2.Frans-Dichlorocethylane 1.3.I.Frichlorocethane 3.1,3.Frichlorocethane 3.1,3.Frichlorocethane 3.1,3.Frichlorocethane 3.2.Forchorocethane 3.3.Forchorocethane				1			0	L	
1.3Trickloroesthane 1.3.3Trickloroesthane 1.3.1Trickloroesthane 1.3.1Trickloroesthane 1.3.1Trickloroesthane 1.3.1Trickloroesthane 1.3Trickloroesthane 1.3Trickloroesthane 1.3Dichteroephenol 2.4-Dichteroephenol 3Dichteroephenol 3Dichteroephenol 3Nitroephenol 3Nitroephenol 4Nitroephenol 5Dichteroephenol 5Dichteroephenol 6Dichteroephenol 7Aestrickloroephen		Tetrachioroethylene						0	
1.1.1-Trickforosthane 1.1.2-Trickforosthane Trickforosthyene Viny (Choids 2-Chlorophenol 2.4-Dintrophenol 3.4-Dintro-Crass 3.4-Dintro-Crass 3.4-Dintro-Crass 3.4-Dintro-Crass 3.4-Dintro-Crass 3.4-Dintro-Crass 3.4-Dintrophenol 4-Nitrophenol 4-Nitrophenol 4-Nitrophenol 5-Nitrophenol 5-Nitrophenol 5-Nitrophenol 7-Nitrophenol 8		- 1 TG 13 1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	X					0	
1.1,3-7ricklorosthane								0	
Trichloroeshylane Vinyi Choirde 2. Chlorophenol 2. 4. Dinethylphenol 4. 5. Dinetrophenol 2. 4. Dinethylphenol 4. 5. Dinetrophenol 2. 4. Dinetrophenol 2. Hitrophenol 4. Hitrophenol 4. Hitrophenol 5. Chlorom M-Cresol Pensachlorophenol Pensachlorophenol 2. A. Grichlorophenol 3. A. Grichlorophenol 3. A. Grichlorophenol 3. Aerasphthylene Acenaphthylene Acenaphthylene Acenaphthylene Benziclaintracene Benziclaintracene Benziclaintracene Benziclaintracene Benziclaintracene Benziclaintracene Benziclaintracene Benziclaintracene Benziclaintracene Benziclaintracene Benziclaintracene Benziclaintracene Benziclaintracene Benziclaintracene Benziclaintracene Benziclaintracene Benziclaintracene Benziclaintracene Bistiz-chiorosphyrethene Bistiz-chiorosphyrether Bistiz-chiorosphyrether Bistiz-chiorosphyrethylainte 4. Bromophenyl Phenyl Ether Buylennyl Phthalate 2. Chioronaphthalane 4. Chiorophenyl Phenyl Ether Chrysene Dibenziclaintracene 1,2-Dicklorobenzene 1,3-Dicklorobenzene 1,4-Dicklorobenzene							0		
Virty Chloride 0 2.4-Dichlorophenol 0 2.4-Dimitro-Octeol 0 2.4-Dimitro-Octeol 0 2.4-Dimitro-Octeol 0 2.4-Dimitro-Octeol 0 2.4-Dimitro-Octeol 0 2.4-Bitrophenol 0 4-Nitrophenol X 2-metryl-4,5 dimitrophenol 0 2-metryl-4,5 dimitrophenol 0 Acanaphthene 0 Acanaphthene 0 Anthracene 0 Benzidine 0 Benzidine 0 Benzidiphrene 0 3.4-Banzafluoranthene 0 Benzidipherylene 0 Benzidipherylene 0 Benzidipherylene 0 Benzidipherylene 0 Benzidipherylene 0 Benzidipherylene 0 Benzidipherylene 0 Benzidipherylene 0 Benzidipherylene 0 Benzidipherylene 0 Benzidi								0	
2-Chlorophenol 0 0 0 0 0 0 0 0 0									
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4,4-Dintro-plenol 4,5-Dintro-phenol 2,4-Bintro-phenol 3-Hitrophenol 4-Hitrophenol 9-Chicro-M-Cresol 9-Entachlorophenol 12,4,6-Trichlorophenol 12,4,6-Trichlorophenol 12,4,6-Trichlorophenol 12,4,6-Trichlorophenol 2-methyl-4,5-dintrophenol 2-methyl-4,5-dintrophenol Acenaphthene Acenaphthene Acenaphthene Acenaphthene Benzidine Benzidine Benzidine Benzidine Benzidine Benzidine Benzidine Benzidine Benzidine Benzidine Benzidine Benzidine Benzidine Benzidine Benzidipiperyene 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			1	1		:		t	l .,
2.4-Hirtophenol 2-Hitrophenol 4-Mitrophenol 4-Mitrophenol p-Chloro M-Cresol Pentachlorophenol Phenol X 12.4-Frichlorophenol 2-methyl-4,6 dintrophenol 2-methyl-4,6 dintrophenol Acnaphthylene Acnaphthylene Acnaphthylene Anthracene Benroliantracene Benroliantracene Benroliantracene Benroliantracene Benroliantracene Benroliyiherylene Benroliyiherylene Benroliyiherylene Benroliyiherylene Benroliyiherylene Benroliyiherylene Bilg'2-chloroshymethane Bilg'2-chloroshymethane Bilg'2-chloroshymethane Bilg'2-chlorosprophylether Bilg'2-chloro								0	
2-Hitrophenol								0	
### A-Nitrophenol p-Chloro-M-Cresol 0 Pentachlorophenol X Pentachlorophenol X Pentachlorophenol X 2,4,6-Trichlorophenol 0 2-methyl-4,6 dinitrophenol 0 2-methyl-4,6 dinitrophenol 0 Acenaphthylene 0 Acenaphthylene 0 Acenaphthylene 0 Anthracene 0 Benzol(a)anthracene 0 Benzol(a)anthracene 0 Benzol(a)pyrene 0 Benzol(a)pyrene 0 Benzol(pil)pyrene 0 Benzol(pil)pyrene 0 Benzol(pil)pyrene 0 Bis(2-chlorostenylethere 0 Bis(2-chlorostenylethylethere 0								0	
p-Chloro-M-Cresol Pentachlorophenol								0	
Pentachiorophenol X	-1	p-Chioro-M-Cresol	:					 	
Prefetal		· · · · · · · · · · · · · · · · · · ·	1		ŀ	TA WAR		,	
2-methyl-4,6 dintrophenol			X	1	at of		1		1
Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Anthracene Benzidine Benzidine Description Descrip	1			1	1 -	1	ļ. ·	0	1
Anthraceme								0	
Benzo(a)antracene								0	
Benzo(a)prene				ı	1	E	!		1
Benzo(a)pyrene						-	the state of the s		
3,4-Benzofluoranthene 0 0									
Benzo(ghi)perylene 0 0						1		0	
Bis(2-chloroethoxy)methane		A STATE OF THE PROPERTY OF THE						4	
Bis(2-chlorosthyl)ether					••••			A	ļ
Bis(2-chloroisopropylether 0 0		The state of the s				+			
Bis(2-ethylphexyl)phthalate			·						
4-Bromophenyl Phenyl Ether 0 0					<u> </u>			Marketine and the second product of the second	1
Butylbenzyl Phthalate 0 2-Chloropaphthalene 0 0 0 0 0 0 0 0 0								0	
4-Chlorophenyl Phenyl Ether	4.0.1	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	r, 🍁 proprior seus representations					0	
Chrysene	ARROSE PERCENTING		angles and the second			<u> </u>		·	
Dibenzo(a,h)anthracene						i			
1,2-Dichlorobenzene 0 1,3-Dichlorobenzene 0 3,3'-Dichlorobenzidine 0 Diethyl Phthalate 0 Dimethyl Phthalate 0 Di-N-Butyl Phthalate 0 2,4-Dinitrotoluene 0 2,6-Dinitrotoluene 0 Di-N-Octyphthalate 0 1,2-Diphenylhydrazine (as Azobenzene) 0 Fluorene 0 Hexachlorobenzene 0 Hexachlorobutadiene 0 Hexachlorobethane 0 Indeno(1,2,3-cd)pyrene 0				1	,	1	1		i
1,3-Dichlorobenzene 0 1,4-Dichlorobenzene 0 3,3'-Dichlorobenzidine 0 Diethyl Phthalate 0 Dimethyl Phthalate 0 DI-N-Butyl Phthalate 0 2,4-Dinitrotoluene 0 2,6-Dinitrotoluene 0 Di-N-Octyphthalate 0 1,2-Diphenylhydrazine (as Azobenzene) 0 Fluorene 0 Hexachlorobenzene 0 Hexachlorobutadiene 0 Hexachloroethane 0 Indeno(1,2,3-cd)pyrene 0				!	,	1	1	0	1
1,4-Dichlorobenzene 0 3,3'-Dichlorobenzidine 0 Dilethyl Phthalate 0 Di-N-Bütyl Phthalate 0 2,4-Dinitrotoluene 0 2,6-Dinitrotoluene 0 Di-N-Octyphthalate 0 1,2-Diphenylhydrazine (as Azobenzene) 0 Fluororanthene 0 Fluorene 0 Hexachlorobenzene 0 Hexachlorobutadiene 0 Hexachlorototutadiene 0 Indeno(1,2,3-cd)pyrene 0		. 1 2 T C. 1 C C C C C C C C C C C C C C C C C						0	
3,3*-Dichlorobenzidine								0	
Dimethyl Phthalate				6				0	
DI-N-Butyl Phthalate								0	
2,4-Dinitrotoluene			X					'n	1941 T
2,4-Dintrotoluene				1			:	0	
DI-N-Octyphthalate 1,2-Diphenylhydrazine (as Azobenzene) Fluroranthene Fluorene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane Indeno(1,2,3-cd)pyrene		A STATE OF THE PARTY OF THE PAR	**					4	:
1,2-Diphenylhydrazine (as Azobenzene)		Commenced in a construction of the Commenced C							
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Hexachjorobenzene	,							t	
Hexachlorobutadiene 0 Hexachloroethane 0 Indeno(1,2,3-cd)pyrene 0									
Hexachioroethane 0 Indeno(1,2,3-cd)pyrene 0								· -	
Indeno(1,2,3-cd)pyrene 0	100								
inderio(1,z,3-to)pyrene			1						1
usopportine		Isophorone		-				0	

			Max V	/alues	Avg V	alues		
				Flow-		Flow-	No. Storm	
	Pollutant	Believed		Weighted		Weighted	Events	j
			Initial Grab		Initial Grab	-	Sampled	Unit
	Napthalene	FICOCIIL	muai Giab	Composite	mittel Grab	Composite	0	1
	Nitrobenzene		· ,				0	1
							0	
	N-Nitrosodimethylamine		÷			and the second s		
	N-Nitrosodi-N-Propylamine						december of the control of	
	N-Nitrosodiphenylamine	1					0	i
	Phenanthrene						0	
	Pyrene						0	
	1,2,4-Trichlorobenzene						0	
	Aldrin						0	
-	Alpha-BHC						0	
	Beta-BHC	***************************************					0	
	Gamma-BHC	•			1		0	
+	Delta-BHC		*******				0	
	Chlordane	*******	<u>.</u>				0	-
						*****		·
	4,4'-DDT		· · · · · · · · · · · · · · · · · · ·			e manuscriptor de la companya de la companya de la companya de la companya de la companya de la companya de la		+
	4,4'-DDE		; •				0	.
	4,4'-DDD		ļ, ., . ,				0	Access - consers t
	Dieldrin	medicariorement recent back			i Mariana mariana mariana mariana di Parana di Parana di Parana di Parana di Parana di Parana di Parana di Paran		. 0	<u>.</u>
-	Alpha-Endosulfan		i				0	
	Beta-Endosulfan		Ī				0	
-	Endosulfan Sulfate	CONTRACTOR OF STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET,	• · · · · · · · · · · · · · · · · · · ·	Control of the contro			. 0	riginal and the second
* .	Endrin	÷	1				. 0	1
	Endrin Aldehyde	** ************************************		*********		Miles produced the state of the	0	o l es sensore
						and the second second second second		Signatura manera da 1
	Heptachlor	 				Marian Charles (817) . The Carlo	** 2200000 COLLEGE	de como co
	Heptachlor Epoxide			to the standard are not as a second to the termination of the standard stan			0	·
	PCB-1242							· · · · · · · · · · · · · · · · · · ·
	PCB-1254						. 0	alaman
Ī	PCB-1221						0	
-	PCB-1232		• · · · · · · · · · · · · · · · · · · ·				0	
	PCB-1248				A CONTRACTOR OF THE CONTRACTOR OF THE		. 0	.1
	PCB-1260		• · · · · · · · · · · · · · · · · · · ·				0	·
+			•		····			
-	PCB-1016					and thereony was a series of the series of	🌡	******
4	Toxaphene	•					0	Access to the second
Ta	able 2F-4							
	Asbestos							election of the con-
	Acetaldehyde	X			w.n		0	
	Allyl alcohol						0	
•	Allyl chloride						0	
	Amyl acetate						0	Ī
	Aniline				Material Control of the Control of t	~	0	
	Benzonitrile						. 0	† *
		X						
	Benzyl chloride	^			ka a namender verste de de de de de de de de de de de de de			+
	Butyl acetate							+
	Butylamine	***		popular property of the section of the				ļ
-	Carbaryi	-					0	
	Carbofuran	remarkation and the contract of the contract o						4
	Carbon disulfide	wie za na na na na na na na na na na na na na			: غالمانىيانىيانىيانىيانىيانىيا		. 0	1
-	Chlorpyrifos						0	1
	Coumaphos		;		1		0	1
	Cresol						0	1
•	Crotonaldehyde				imae		0	
	Cyclohexane	X	<u>;</u>	Control of the Contro	er		0	
		4 ^ .					o	
	2,4-D (2,4-Dichlorophenoxyacetic acid)						0	
	Diazinon							
	Dicamba		i				0	. .
	Dichlobenil	ļ	1		paramanan mananan mananan kananan k		0	<u> </u>
	Dichlone	1				and the second	0	<u> </u>
	2,2-Dichloropropionic acid	· T · · · · · · · · · · · · · · · · · ·					0	1
- †	Dichlorvos						0	1
· •		+			0.000, 2.000 n.c 0 0 0.000 n.c 0.000		ō	
	Diethyl amine		4	more and the second second			🎍 aran 1900 o anto en esta en esta en el esta en esta en el esta	
	Dimethyl amine	_	ļ ļ				0	
	Dinitrobenzene		İ				. 0	
	Diquat	F	<u> </u>			gajagagan makar ka a sa ka	0	<u></u>
****	Disulfaton		1				0	
	Diuron						0	Ī
• • •	Epichlorahydrin		<u> </u>				0	•
	Ethion		†				. 0	+
			·		manuscratters in the		. 0	
	Ethylene diamine	X						

	1	Max \	/alues	Avg \	/alues	1	
Pollutant			Flow-		Flow-	No. Storm	
Pollutant	Believed		Weighted		Weighted	Events	
	Present	Initial Grab	Composite	Initial Grab	Composite	Sampled	Unit
Ethylene dibromide						0	
Formaldehyde	×		1			0	
Furfural			•	4		0	
Guthlon						0	
Isoprene		1				0	
Isopropanolamine						0	
Kelthane					·	0	The same of the sa
Kepone						0	
Malathion						0	
Mercaptodimethur				•		0	
Methoxychlor						0	
Methyl mercaptan		• :	.	1 .		0	
Methyl methacrylate	×			***************************************	management and a second	0	***************************************
Methyl parathion		A COLUMN TO THE PARTY OF THE PA		+		0	
Mevinphos				***********************		O	
Mexacarbate		·			processor and the second section is a second section of the second section of the second section is a second section of the second section is a second section of the section of the second section of the section of th	0	
Monoethyl amine		***************************************	 		(** .* ********************************	0	.,
Monomethyl amine	×	,				0	
Naled				†		0	
Napthenic acid		<u> </u>				0	
Nitrotoluene		**************************************		1		0	
Parathion		kon e e		†······ · · ·		0	
Phenolsulfonate	X			t		0	
Phosgene	X			 		0	
Propargite		•	<u> </u>			0	
Propylene oxide		***************************************	harrier or a company of the second			0	
Pyrethrins						0	
Quinoline		+		†		0	
Resorcinol						0	
Stronthium		The second secon	<u>.</u>	1		0	
Strychnine				†·		0	
Styrene	×		 ,	1		0	
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)				4		0	
TDE (Tetrachlorodiphenyl ethane)						0	
2,4,5-TP [2-(2,4,5-Trichlorophenoxy) propanoic acid]		4				0	
Trichlorofan						0	
Triethylamine	×					0	
Trimethylamine	ļ ^	 		•		0	
Uranium		1		•		0	
Vanadium	+	 				0	
Vinyl acetate	x	ļ		4		0	,
Xylene Xylene	- ` X	<u> </u>				0	
				*****************		0	******
Xylenol							
Zirconium	ĺ	i i				0	

			Max \	/alues	Avg V	/alues		
	B. Haka ak			Flow-		Flow-	No. Storm	!
	Pollutant	Believed		Weighted		Weighted	Events	
	WARRY CONTRACTOR OF THE CONTRA	Present	Initial Grab	Composite	Initial Grab	Composite	Sampled	Units
A	Required Parameters			•	0		12	mg/L
	0&G	NA NA	0	L			0	mg/L
	BODS	NA NA	259	garage and garage and a second	37.5		14	mg/L
	COD	NA NA	300	<u> </u>	105	entano, sur un esta e il	14	mg/L
	TSS	NA NA	300				0	mg/L
	Total Nitrogen		*			•	Ō	mg/L
	Total Phosphorus	NA NA	·	: *	7.3		14	SU
	pH	NA	8.1	************	ļ	i	i	Security countries of the contribution
	A A A A A	10.FC		netounter II e	Outfalls 001	and AO1)		1
В	Pollutants included in facility effluent guidelines, or listed in NF	NA NA	62.9	astawate: Inc	11.2		14	mg/L
	TOC	NA NA	02.5	1			0	
	Ammonia		-		•		0	
	TKN	NA NA				·	Ō	
	Nitrate-Nitrite	NA					0	• · · · · · · · · · · · · · · · · · · ·
Accession 1 or 7	Fluoride	NA	4			*	0	
	E.coli	NA	***********			 	tarian a massacra es ce	
	Chromium, Total	NA		·	decidence of the control of		0	
	Copper, Total	NA		·	4		0	ļ
	Lead, Total	NA	A STATE OF THE STA		-		0	
	Nickel, Total	NA		dans		1	0	ļ
	Zinc, Total	NA		<u> </u>		<u> </u>	0	<u> </u>
	Perfluoroctanoic Acid (PFOA)							
	Perfluorobutanoic Acid (PFBA)							
	Perfluorobutanesulfonamide (PFBSA)							
	Perfluorooctanesulfonamide (PFOSA)							
	Perfluorooctanesulfonate (PFOS)	1						
	Perfluorobexanoic Acid (PFHxA)	1		Se	ee Attachmen	t 2C-4		
	Perfluoroheptanoic Acid (PFHpA)	7						
	The state of the s	-						
	Perfluorobutanesulfonate (PFBS)							
	Perfluorohexanesulfonate (PFHS)	-1						
	2-(N-ethyl-PFOSA) acetic acid							
	2-(N-methyl-PFOSA) acetic acid	At a				*	0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene	NA NA	****		Name and the second second		0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile	NA		· · · · · · · · · · · · · · · · · · ·		Annahan salah sala	0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene	NA NA					0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride	NA NA NA		Apparent of the state of the st			0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene	NA NA NA NA			* · · · · · · · · · · · · · · · · · · ·		0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride	NA NA NA NA			*		0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene	NA NA NA NA NA					0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene	NA NA NA NA NA NA					0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene	NA NA NA NA NA NA					0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane	NA NA NA NA NA NA					0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane	NA NA NA NA NA NA					0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,1-dichloroethane 1,1-dichloroethane	NA NA NA NA NA NA NA NA NA NA NA NA NA					0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,1-dichloroethane 1,1,1-dichloroethane 1,1,1-trichloroethane	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,1-trichloroethane	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane Chloroethane Chloroform	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroform 1,2-dichlorobenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane 1,1,3-trichloroethane 1,1,4-dichloroethane 1,1,4-dichloroethane 1,1,4-dichloroethane 1,1,4-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1-dichloroethane Chloroethane 1,1-2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroetnylene (1,1-dichloroethene)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichlorobenzene 1,1-dichlorobenzene 1,2-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1-dichloroethane 1,1-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloroppane	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane Chloroethane Chloroethane Chloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1-dichloroethane Chloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane 1,1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroptopene) 1,3-dichloroppylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,2-trichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,2-trichloroethylene (1,1-dichloroethene) 1,2-trians-dichlorobenzene 1,2-dichlorobenzene 1,3-dichloropenyene 1,2-dichloropenyene (trans-1,2-dichloroethene) 1,2-trans-dichloropenyene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Filoranthene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane 1,1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroptopene) 1,3-dichloroppylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,2-trichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,2-trichloroethylene (1,1-dichloroethene) 1,2-trians-dichlorobenzene 1,2-dichlorobenzene 1,3-dichloropenyene 1,2-dichloropenyene (trans-1,2-dichloroethene) 1,2-trans-dichloropenyene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Filoranthene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroform 1,2-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,2-trians-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,2-dichloroproppane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1-dichloroethane Chloroform 1,2-trichloroethane 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methyl chloride (Chloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropylene {cis- and trans-1,3-dichloropropene} 2,4-dimethylphenol Ethylbenzene Fluoranthene Methyl chloride (Chloromethane) Methyl chloride (Chloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane Chloroethane 1,1-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropylene {cis- and trans-1,3-dichloropropene} 2,4-dimethylphenol Ethylbenzene Fluoranthene Methyl chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (trans-1,2-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1-dichloroethane Chloroform 1,2-trichloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropopane 1,3-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,4-dimtylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 2,4-dinitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 4-nitrophenol 4,6-dinitro-o-cresol (2-Methyl-4,6-dinitrophenol)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1-dichloroethane Chloroform 1,2-trichloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropopane 1,3-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,4-dimtylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 2,4-dinitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

			Max	Values	Avg \	Avg Values		-
	Pollutant			Flow-	70 m	Flow-	No. Storm	
		Believed	l	Weighted		Weighted	Events	
	g the gradient decrease and decrease and continue to the conti	Present	Initial Grab	Composite	Initial Grab	Composite	Sampled	Units
į	Diethyl Phthalate	NA					0	
	Dimethyl phthalate	NA	4		·		0	
	Benzo(a) anthracene	NA	·				. 0	
	Benzo(a) pyrene	NA		: 	<u> </u>	ļ	0	
	Benzo(b) fluoranthene (3,4-Benzofluoranthene)	NA	4		<u></u>		0	
	Benzo(k) fluoranthene	NA	•	i) • • • • • • • • • • • • • • • • • • •	! 	0	
	Chrysene	NA	•	-			0	
	Acenaphthylene	NA	***************	} •	kananan ayan ayan ayan ayan ayan ayan ay		0	
4	Anthracene	NA NA		+			0	
	Fluorene	NA	•	·		•	0	
,	Phenanthrene	NA		1			. 0	
	Pyrene	NA NA				enatura e comunicación e comunicació	0	
	Tetrachloroethylene (Tetrachlorethene)	NA NA		• • • • • • • • • • • • • • • • • • • •		•	0	-
	Toluene	NA NA	0	*******************	0	************************	12	ug/L
	Trichloroethylene (Trichlorethene)	NA .					0	
	Vinyl chloride	NA	· •			: •	0	
	Cyanide, Total	NA					0	
	FOR 18th 18th 18th 18th 18th 18th 18th 18th	<u> </u>						b
	Poliutants known or believed to be present (and listed in Tables	2F-2, 2F-3,	and 2F-4)	; p				
	Table 2F-2		*** *** *******************************				0	i Kananan intika
i	Bromide	1			,		0	
	Chiorine, Total Residual	·					0	
i	Color	1					0	minimum and a second
1	Fecal Coliform						0	
	Fluoride	X					0	
	Nitrate-Nitrite						0	
į	Nitrogen, Total Organic						0	
	Oil and Grease	X					0	
	Phosphorus, Total	x					0	
	Radioactivity						0	
	Sulfate	` X					0	
	Sulfite	Х					0	
	Surfactants	X					0	
	Aluminum, Total						0	
	Barium, Total	X					0	
	Boron, Total	•					0	
	Cobalt Total	X					0	
	Iron, Total	×					0	
	Magnesium, Total	* !	· · · · · · · · · · · · · · · · · · ·				0	
	Molybdenum, Total	χ .		And a contract to the same at the same of			0	
	Manganese, Total	X					0	
	Tin, Total	<u>х</u>					0	
	Titanium, Total	•••••••••••••••••					0	
•	Table 2F-3	***************************************						
•	Antimony, Total	X	energy and value of the second				0	
	Arsenic, Total						0	
	Beryllium, Total	****		eromonement incommon incommon e			0	
	Cadmium, Total						0	L
	Chromium, Total				j		0	
	Copper, Total	×					o .	
	Lead, Total	x					ñ	
	Mercury, Total	x	ı				n.	
	Nickel, Total						, V	
			1				0	
	Selenium, Total	 						
~-+	Silver, Total	·					0	
	Thallium, Total	! . ••					0	
	Zinc, Total	X					0	
	Cyanide, Total		i			-	0	
	Phenois, Total	Х .				formación de la position de la commencia de la commencia de la composition de la composition de la composition	0	
	Acrolein	ì.				;	0	
	Acrylonitrile						0	
	Benzene						0	
	Bromoform				i		0	
	Carbon Tetrachloride						0	
	Chlorobenzene						0	
	Chlorodibromomethane			9			0	
	Chloroethane				1	ı	۵	
	2-Chloroethylvinyl Ether			f	1	- 1	0	

			Max	/alues	Avg V	alues		1
	Pollutant	Believed Present		Flow- Weighted Composite	Initial Grab	Flow- Weighted Composite	No. Storm Events Sampled	Units
	hloroform	riesent	Timesa Grab				0	Acres server
	.niorororm Jichlorobromomethane	1					0	
	.1-Dichloroethane	*	,				0	
	,2-Dichloroethane	x					0	
	,1-Dichloroethylene						0	
	,2-Dichloropropane						0	
	,3-Dichloropropylene						. 0	
	thylbenzene	. X					. 0	1
	Methyl Bromide						0	
	Methyl Chloride						0	
	Methylene Chloride	,					1 0	1
	,1,2,2,-Tetrachloroethane	1	# 6 5					1
1	etrachloroethylene						0	
1	oluene	X					0	
1	,2-Trans-Dichloroethylene						ŏ	
.1	,1,1-Trichloroethane							
-1	,1,2-Trichloroethane							
	richloroethylene				•		n	
	/inyl Chloride	+	ſ		i		. 0	1
	P-Chlorophenol	To the state of th		ļ	1		<u> </u>	+
3 1	2,4-Dichlorophenal	1	į	1	į.		n	1
	2,4-Dimethylphenol						Ω	
	i,6-Dinitro-O-Cresoi						0	
	2,4-Dinitrophenol						Ô	
	2-Nitrophenoi						ñ	
	I-Nitrophenol			ı			0	I
	-Chloro-M-Cresol						0	
1 1	Pentachlorophenol		*			:	0	•
	Phenol	X				į.	0	i
	2,4,6-Trichlorophenol	į				¢	0	
	2-methyl-4,6 dinitrophenol						0	
	Acenaphthene						o .	
	Acenaphthylene						0	
	Anthracene	1					0	1
	Benzidine	and the second s			and the second second second		0	and a supply of the Salaha
	Benzo(a)anthracene		1	Total Control of the		NAME OF THE PARTY OF THE PARTY OF	0	and the second s
	Benzo(a)pyrene		··• ··· ··		make a second		0	
	3,4-Benzofluoranthene					*	0	
	Benzo(ghi)perylene	AND THE RESERVE OF THE PARTY OF		+		· comment of the state of the s	0	
	Benzo(k)fluoranthene			1	and the second of the second second		0	1
	Bis(2-chloroethoxy)methane			+		**************************************	O	erminament distribution (in
	Bis(2-chloroethyl)ether				-		0	yan k e, ya abadhisi ai umban
	Bis(2-chloroisopropyl)ether	·····				† · · · · · · · · · · · · · · · · · · ·	0	
	Bis(2-ethylyhexyl)phthalate			t		the same and the case distribution to be single	0	Confidential States (1995)
	4-Bromophenyi Phenyi Ether				1	1	0	1
	Butylbenzyl Phthalate 2-Chloronaphthalene				1		0	
	2-Chloronaphthalene 4-Chlorophenyl Phenyl Ether					T	0	T
, ,	Chrysene	4	,	•			0	
	Dibenzo(a,h)anthracene	:				!	0	
	1,2-Dichlorobenzene	,	,				0	201
	1,3-Dichlorobenzene						0	
	1,4-Dichlorobenzene						0	
	3,3'-Dichlorobenzidine		*				. 0	
	3,3 -Dictiorobenzione Diethyl Phthalate			,			0	
	Dimethyl Phthalate	x					0	
	Di-N-Butyl Phthalate						0	14
	2,4-Dinitrotoluene			1	i	1	. 0	
	2,6-Dinitrotoluene	and the second s		1			0	
	Di-N-Octyphthalate					4	0	
	1,2-Diphenylhydrazine (as Azobenzene)					I	0	
	Fluroranthene					1	0	I
				i	4 -		0	
	Fluorene						0	
	Hexachlorobenzene						0	
:	Hexachlorobutadiene						0	
	Hexachloroethane	1	4			1	0	-
	Indeno(1,2,3-cd)pyrene							

			Max \	/alues	Avg \	/alues	i i	1
	Pollutant	Believed		Flow- Weighted		Flow- Weighted	No. Storm Events	
		Present	Initial Grab	-	Initial Grab	, –	Sampled	Units
T	Napthalene	·					0	
	Nitrobenzene						. 0	4
-	N-Nitrosodimethylamine	•				ļ	0	
	N-Nitrosodi-N-Propylamine		į	hara a sa canada da manada da manada da manada da manada da manada da manada da manada da manada da manada da m			. 0	
į	N-Nitrosodiphenylamine						. 0	i.
	Phenanthrene						0	
	Pyrene				*		0	
1	1,2,4-Trichlorobenzene	1				:	0	1
	Aldrin Alpha-BHC	·	<u></u>		-			
+	Beta-BHC	 				in a service of the s	0	
1	Gamma-BHC	†	•			•	0	
***	Delta-BHC	1					0	
	Chlordane	*					0 '	
-	4,4'-DDT	***************************************			******************************		0	
1.	4,4'-DDE				<u></u>		0	
	4,4'-DDD	<u> </u>			·	<u> </u>	0	<u> </u>
	Dieldrin		: . 	•		+	0	↓
	Alpha-Endosulfan	-	-		_	4	0	,
	Beta-Endosulfan				ļ	+	0	;
	Endosulfan Sulfate	!	Ì		i	1	0	
	Endrin	•	. 		1	-	0	
	Endrin Aldehyde	*	-			4	0	-
	Heptachlor	and the state of t					0	1
	Heptachlor Epoxide PCB-1242	4	4					
. a se i lanen	PCB-1254			*******************			0	
4	PCB-1221	•	•	•		•	0	<u> </u>
•	PCB-1232	+	+			4.	0	
	PCB-1248		·	*************************************			0	
	PCB-1260	+		A			0	
-	PCB-1016						0	
1	Toxaphene						0	
T	able 2F-4							
-	Asbestos	Ī	i				0	
	Acetaldehyde	X				······································	<u> </u>	
	Allyl alcohol		: -•		ļ		0	
	Allyl chloride				4	<u> </u>	0	+
	Amyl acetate			 	****		0	
	Aniline	÷	•			:	0	
ì	Benzonitrile	x	· · · · · · · · · · · · · · · · · · ·				0	
	Benzyl chloride Butyl acetate	†^····			1		0	
	Butyl acetate Butylamine		-4		+	ngs.1	0	1
	Carbaryi	-		÷	•		0	-
***	Carbofuran				1		0	1
	Carbon disulfide	1		*			0	
***	Chlorpyrifos	+	4		1		0	
+	Coumaphos	+		•••••			0	
1	Cresol	1		1			0	
	Crotonaldehyde						0	
1	Cyclohexane	X	1			•	0	
	2,4-D (2,4-Dichlorophenoxyacetic acid)					4	0	<u> </u>
	Diazinon					ļ	0	
	Dicamba		1		4		0	+
	Dichlobenil			4		·	. 0	
.1	Dichlone			4	·	·	0	+
1.	2,2-Dichloropropionic acid					<u>.</u>	0	+
	Dichlorvos					-	. 0	
	Diethyl amine			*···			0	
	Dimethyl amine					·		*
av 1000 m	Dinitrobenzene				· •	•	0	į
	Diquat	•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			4	0	-
I	Disulfoton				<u>.</u>		. 0	<u> </u>
1	Diuron				4		0	4
. .	Epichlorohydrin			*		<u> </u>	0	
	Ethion				:		. 0	+
	Ethylene diamine	X		į.			0	;

	1	Max \	/alues	Avg \	/alues	:	
Pollutant	1		Flow-		Flow-	No. Storm]
Pollutant	Believed		Weighted	1	Weighted	Events	Į
	Present	Initial Grab	Composite	Initial Grab	Composite	Sampled	Units
Ethylene dibromide						0	
Formaldehyde	X			·		0	
Furfural				ļ	·	0	
Guthion				i		0	
Isoprene			hanner on the same of the same	İ	: •	0	
Isopropanolamine				<u>.</u>		0	
Kelthane		***************************************				0	ļ
Kepone				4		0	ξ
Malathion		<u> </u>			Marier - 1 - 1	0	
Mercaptodimethur					•	0	• • • • • • • • • • • • • • • • • • •
Methoxychlor						0	i
Methyl mercaptan						0	
Methyl methacrylate	X		: •	•		0	ment and a contract
Methyl parathion						0	
Mevinphos				·	·	0	
Mexacarbate						0	
Monoethyl amine				:		0	
Monomethyl amine	X			******************	.,.,,	0	Market
Naled			L	•		0	
Napthenic acid						0	i i
Nitrotoluene						0	
Parathion				***************************************		0	Larence po con-
Phenoisulfonate	X			***	management of the state of the	. 0	
Phosgene	X			•		0	<u> </u>
Propargite				***************************************		0	· •
Propylene oxide						0	
Pyrethrins						0	·
Quinoline	;					0	
Resorcinol						0	
Stronthium						0	
Strychnine				_		0	
Styrene	X	1		•		0	
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)]		12-13-13-14-13-14-14-14-14-14-14-14-14-14-14-14-14-14-			0	
TDE (Tetrachlorodiphenyl ethane)						0	
2,4,5-TP [2-(2,4,5-Trichlorophenoxy) propanoic acid]						0	
Trichlorofan						0	
Triethylamine	X					0	
Trimethylamine		i	Name of the state	1		0	
Uranium		1				0	
Vanadium						0	
Vinyl acetate	X					0	
Xylene	X					0	
Xylenol	en en en en en en en en en en en en en e	1	kara i , ekso, dahindrananti veri , .e.ee i			0	
Zirconium	. •			**************************************	.	0	T

			Max \	/alues	Avg V		No. Storm	1
	Pollutant	1			Flow- Flow-			
		Believed	Initial Grab	Weighted	Initial Grab	Weighted Composite	Events Sampled	Units
rt A	Required Parameters	: FIESEIIL	IIII(Id) Grad	Composite	minual Grab	Composite	Janipieu	01,12
	O&G	NA	0		0		12	mg/l
	BOD5	NA					0	mg/
>-1-CARRIES-1-96	COD	NA	84.7	:	25.0		14	mg/
	TSS	NA	203		52.6		14	mg/
. v. danse . v. marrier	Total Nitrogen	NA					0	mg/
**********	Total Phosphorus	NA		•			0	mg/
ANAPARA	рН	NA	8.2		7.1		14	SU
					<u>L</u>			
rt B	Pollutants included in facility effluent guidelines, or listed in NP			astewater (i.e		and A01)		
	TOC	NA	46.2		10.5		14	mg/
	Ammonia	NA NA	 				0	
	TKN	NA NA	ļ		·			
CONTRACTOR	Nitrate-Nitrite	NA NA					0	
******	Fluoride	NA NA	ļ		·		0	
	E.coli	NA NA	•		i		0	
	Chromium, Total	NA NA	ļi		ļ		0	
	Copper, Total	NA NA			 		0	
elik Austria, este ette	Lead, Total	NA NA	,				0	
	Nickel, Total	NA NA					0	
	Zinc, Total	NA	<u> </u>					
	Perfluoroctanoic Acid (PFOA) Perfluorobutanoic Acid (PFBA)	-						
occurence	Perfluorobutanesulfonamide (PFBSA)	-						
ment out out defen	Perfluorooctanesulfonamide (PFOSA)							
reaces/rehie	Perfluorooctanesulfonate (PFOS)	-						
Arres a contrata	Perfluorohexanoic Acid (PFHxA)			Sa	e Attachment	2C-4		
	Perfluoroheptanoic Acid (PFHpA)	1		<i></i>	e Attacimient			
WAY STREET	Perfluorobutanesulfonate (PFBS)	1						
•	<u> </u>	1						
	Perfluorohexanesulfonate (PFHS)	1						
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid							
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid		····			,,,		
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene	NA NA	***************************************		15.1.1.100.1.4	;	0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile	NA	•				0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene	NA NA						
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride	NA NA NA					0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene	NA NA NA					0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene	NA NA NA NA					0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene	NA NA NA NA NA					0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane	NA NA NA NA NA NA					0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane	NA NA NA NA NA NA					0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane Hexachloroethane	NA NA NA NA NA NA NA					0 0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane	NA NA NA NA NA NA NA NA NA NA					0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-z-trichloroethane 1,1-z-trichloroethane	NA NA NA NA NA NA NA NA NA NA NA					0 0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,1-dichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane Chloroethane	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane Chloroform	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane Chloroethane Chloroethane Chloroform 1,2-dichloroethane	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-dichloroethane 1,1-2-trichloroethane 1,1-2-dichloroethane 1,1-2-dichloroethane 1,1-3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-dichloroethane 1,1-2-trichloroethane 1,1-2-trichloroethane 1,1-2-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,4-dichloroethylene (1,1-dichloroethene)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane 1,1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene Hexachloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloroppane 1,3-dichloroppopane 1,3-dichloroppopane 1,3-dichloroppopane 1,3-dichloroppopylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane 1,1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene Hexachloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichlorobenzene 1,2-dichlorobenzene 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene Hexachloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloropropane) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene Hexachloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-dichloroethane 1,1-2-trichloroethane 1,1-dichloroethane 1,1-dichlorobenzene 1,2-dichlorobenzene 1,2-dichlorobenzene 1,2-dichlorobenzene 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloropenzene 1,2-trans-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloropenene 1,2-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene Hexachlorobentane 1,1-1-trichloroethane 1,1-1-trichloroethane 1,1-2-trichloroethane 1,1-2-trichloroethane 1,1-2-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Methyl chloride (Chloromethane) Methyl chloride (Chloromethane) Methyl chloride (Chloromethane)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene Hexachlorobenzene 1,1-1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropenzene 1,3-dichloropenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene Hexachlorobethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-trans-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene Hexachloroethane 1,1,1-trichloroethane 1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1,2-trichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,1-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,3-dichloropenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene Hexachloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichlorobenzene 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloroppopylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Methylene chloride (Chloromethane) Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-dichloroethane 1,1-2-trichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,2-trans-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,3-dichloropenzene 1,3-dichloropenzene 1,3-dichloropenzene 1,3-dichloropenzene 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Methyl chloride (Chloromethane) Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 2,4-dinitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene Hexachloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-dichloroethane 1,1-z-trichloroethane 1,1-dichloroethane 1,1-dichlorobenzene 1,2-dichlorobenzene 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,1-dichloropenzene 1,2-trans-dichloroethylene (1,1-dichloroethene) 1,2-dichloropropane 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chioromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 2,4-dinitrophenol 2,4-dinitrophenol 2,4-dinitrophenol 2,4-dinitrophenol 2,4-dinitrophenol 2,4-dinitrophenol 2,4-dinitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-dichloroethane 1,1-2-trichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,2-trans-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,2-dichloropenzene 1,3-dichloropenzene 1,3-dichloropenzene 1,3-dichloropenzene 1,3-dichloropenzene 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Methyl chloride (Chloromethane) Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 2,4-dinitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

	:	Max \	/alues	Avg \	'alues		
Pollutant	Believed		Flow- Weighted	The state of the s	Flow- Weighted	No. Storm Events	1
	Present	Initial Grab	Composite	Initial Grab	Composite	Sampled	Units
Diethyl Phthalate	NA		i : k :		: •	0	
Dimethyl phthalate	, NA				•	0	! +
Benzo(a) anthracene	NA NA	: +				0	
Benzo(a) pyrene	NA	•		*		. 0	-
Benzo(b) fluoranthene (3,4-Benzofluoranthene)	NA			<u>.</u>		0	•
Benzo(k) fluoranthene	NA			.		. 0	
Chrysene	NA NA	•••••		<u> </u>		0	·
Acenaphthylene	NA	•				. 0	
Anthracene	NA NA	goden - transcriptor approximation				0	÷
Fluorene	NA	•,.,	•			0	
Phenanthrene	NA	÷	1	i		0	•
Pyrene	NA NA		•	t	.	0	+
Tetrachloroethylene (Tetrachlorethene)	NA NA		L.	0	CONTRACTOR CONTRACTOR CONTRACTOR	12	ug/L
Toluene	NA NA			· · · · · · · · · · · · · · · · · · ·	.	0	10/1
Trichloroethylene (Trichlorethene)	NA NA	· •			######################################	Ŏ	
Vinyl chloride	NA NA	.				0	unicon de la compania del compania de la compania del compania de la compania del la compania dela compania del compania del compania del compania del compania dela compania del compania
Cyanide, Total	. NA			-	4		
Pollutants known or believed to be present (and listed in Ta	hlas 25 2 25 2	and 25 Al	<u>.</u>	÷	•	ing and the second	+
	Dies 21-2, 21-3,	and zr-ej		ipos	ļ	0	· • · · ·
Table 2F-2	and the second section of the section of the section of the second section of the secti				-	Ŏ	manager
Bromide Chloring Total Bacidual	<u> </u>				1	Ö	
Chlorine, Total Residual		Market St. Co., Co., Co., Co., Co., Co., Co., Co.	L	* ***********************************	.	0	1
Color Engal Coliform		g		+		0	
Fecal Coliform Fluoride	X		i			0	*
	•					0	
Nitrate-Nitrite	1		į		1	Ō	
Nitrogen, Total Organic	×		i			0	1
Oil and Grease	×					0	
Phosphorus, Total	. ^			1		0	1
Radioactivity	X	***************************************	•	 	The second section when a second section	0	
Sulfate			4	4	and an employment condition of odd	0	
Sulfite	` X	dente amana recorder to the			 	0	
Surfactants	. ^				+		
Aluminum, Total			•	.,	4	·	
Barium, Total	X			 		0	
Boron, Total	x		•	÷		0	
Cobalt Total	-				<u>†</u>		•
Iron, Total		i				. 0	•
Magnesium, Total			#			1 0	- Atariat attaches a substantian
Molybdenum, Total	X	A		·	•	1 0	
Manganese, Total	X		allen af you by all of the control of the control of the con-		Access to the second	ŏ	
Tin, Total				<u> </u>		. 0	· Marian in the second
Titanium, Total		nacional de marcos de la completa (n. 17	ge. 2022/00/2017/2017		· i·	• Y	
Table 2F-3			4.0	\$100 commence of the commence		0	
Antimony, Total	X	•	4 .5 11100 11100			0	1
Arsenic, Total					,		**
Beryllium, Total					+	. 0	4
Cadmium, Total				ŧ	1	0	1
Chromium, Total	v					0	
Copper, Total	X					0	
Lead, Total	X		1	1	!		
Mercury, Total	X			1	!		1
Nickel, Total				+	1	· ^	
Selenium, Total			•			<u>, , , , , , , , , , , , , , , , , , , </u>	÷
Silver, Total		F	·		management of the state of the	, , , ,	4-2
Thallium, Total	i				-		•
Zinc, Total	X					Δ.	
Cyanide, Total	4		i	į		0	:
Phenois, Total	X		ļ	. i	+	0	
Acrolein	1		1	1	1		
Acrylonitrile						0	
Benzene			,	:		0	
Bromoform			1			. 0	
Carbon Tetrachloride						C	
Chlorobenzene			i			0	
Chlorodibromomethane				1		. 0	
Chloroethane	*					0	
						0	

				Max \	Values	Avg V	alues		· · · · ·
		On Hustone	1		Flow-		Flow-	No. Storm	1
		Pollutant	Believed		Weighted		Weighted	Events	
excesse receptor was			Present	Initial Grab	Composite	Initial Grab	Composite	Sampled	Units
		Chloroform			+			0	
		Dichlorobromomethane	1 5	i	1			0	ì
		1,1-Dichloroethane						0	
		1,2-Dichloroethane	X					0	
		1,1-Dichloroethylene						. 0	
		1,2-Dichloropropane						0	
	. 1	1,3-Dichioropropylene						. 0	
		Ethylbenzene	×					0	
ļ		Methyl Bromide	i	1	4	!		0	
		Methyl Chloride			,			. 0	
		Methylene Chloride						0	
1		1,1,2,2,-Tetrachioroethane			ĺ	:		0	
		Tetrachioroethylene				Ī		0	'
		Toluene	x					0	
		1,2-Trans-Dichloroethylene	^					ň	
		무슨 보는 사람들이 있는 사람들이 있다. 그는 사람들이 보고 있다면 보다 보다 보다 보다 보다 보다 보다 보다 보다 보다 보다 보다 보다						ŏ	
		1,1,1-Trichloroethane							
		1,1,2-Trichloroethane						0	
		Trichloroethylene							
4		Vinyl Chloride			•		ì	0	
	POR S	2-Chlorophenol		1		<u> </u>		0	
1		2,4-Dichlorophenol	i	ē i	!			0	į.
		2,4-Dimethylphenol						0	
	. 1	4,6-Dinitro-O-Cresol						0	
	٠,	2,4-Dinitrophenol						0	tar jir
	11 	2-Nitrophenol						C	
		4-Nitrophenol						0	
1	Ì	p-Chioro-M-Cresol						0	
		Pentachiorophenol	*****					0	
. 1	- ,	Phenol	×		1			0	'
i		2,4,6-Trichlorophenol	1	i	!			0	1
		2-methyl-4,6 dinitrophenol			!		•	ñ	
								0	
		Acenaphthene							
		Acenaphthylene					*.	0	
1	1.1	Anthracene	1		ı			0	
		Benzidine							
	-	Benzo(a)anthracene						0	<u>.</u>
		Benzo(a)pyrene						0	-
		3,4-Benzofluoranthene		ļ	and a state of the property of the last			0	4
		Benzo(ghi)perylene						0	
		Benzo(k)fluoranthene						0	
		Bis(2-chloroethoxy)methane						0	<u> </u>
		Bis(2-chloroethyl)ether						0	
ere de la comorti recentada de la comorti	ente	Bis(2-chloroisopropyl)ether						C	
		Bis(2-ethylyhexyl)phthalate		Mining Milliands Assessment Barries				0	
		4-Bromophenyl Phenyl Ether						0	
+	-	Butylbenzyl Phthalate						0	
		2-Chloronaphthalene		ļ				<u>0</u>	+
+		2-Chlorophenyl Phenyl Ether						0	
1	- 3			1				0	1
1		Chrysene				ı		0	i
		Dibenzo(a,h)anthracene						0	1
		1,2-Dichlorobenzene							
		1,3-Dichlorobenzene						0	
		1,4-Dichlorobenzene		í	i			0	1
		3,3'-Dichlorobenzidine					1	0	1
		Diethyl Phthalate				•		0	
		Dimethyl Phthelate	X					0	
		Di-N-Butyl Phthalate						0	1.0
1		2,4-Dinitrotoluene		r	*			0	
		2,6-Dinitrotoluene	***************************************	processor and the second				0	1
		DI-N-Octyphthalate				<u> </u>		0	
	200	1,2-Diphenylhydrazine (as Azobenzene)		r				0	†
	-	The state of the s	····					0	+
1		Fluroranthene			•	i	į		L
		Fluorene						0	
		Hexachlorobenzene						0	925 E
		Hexachlorobutadiene						0	
		Hexachloroethane						0	
		Indeno(1,2,3-cd)pyrene	1	i -	:	E CO		0	
1	- 1								

	Pollutant	Believed		Values Flow- Weighted		Flow- Weighted	No. Storm Events	Unit
	lapthalene	Present	Initial Grab	Composite	initial Grab	Composite	Sampled 0	Unit
	litrobenzene			!	į.	}	0	į
	l-Nitrosodimethylamine I-Nitrosodi-N-Propylamine	and the second s				and the second second second	0	
	-Nitrosodi N-r opyramie -Nitrosodi phenylamine		ž				0	
	henanthrene					,	0	,
P	yrene						.0	
1	2,4-Trichlorobenzene					1	0	
	ldrin		mg () (page ())))))))))))))))))				0	
anna de mo	lpha-BHC			·		**************************************	0	
	eta-BHC		*			•	0	ļ
	amma-BHC elta-BHC		•				. 0	
	hlordane		•••••••			* 0.000.000.0000.0000.000.000	0	**************************************
	,4'-DDT	Manufactura de la companya del companya del companya de la company		Andrea de la companya		**************************************	0	.
THE RESIDENCE	,4'-DDE	••••••••••••••••••••••••••••••••••••••	·	Andrewski green production			0	-
	,4'-DDD						0	
D	leldrin				L		0	
	lpha-Endosulfan		Special and the second special	4		name on worseway and not not a solution	0	ļ,
	eta-Endosulfan		÷			-	0	_
	ndosulfan Sulfate		i.		•		0	
	ndrin			.	***	AND DESCRIPTION OF THE PARTY OF	0	
	ndrin Aldehyde		4	ļ.,	•		0	
	eptachlor			+	4		Ö	4,000
	eptachlor Epoxide			4	decide the same of	<u> </u>	0	
	CB-1242 CB-1254		nderson e la seria de la seria de la describiración en constru	Mary property and the second contract of the	inclusion al collaboration activities and a		0	<u> </u>
	CB-1221				4			
	CB-1232	Branch Control	· Proce a communication in the interest of the contract of	nik samma sa samma z z minama ministrativ	BOACH SAVERBURGETHINGS	••••••••••••••••••••••••••••••••••••••	0	Ť · · · · · ·
	CB-1248		•	4	Americani, countre l'escele Metri fotbi		0	
P	CB-1260						0	
P	CB-1016			4			0	ļ
Т	oxaphene		·	************			0	
abl	e 2F-4		<u></u>	······································		‡		-
4000	sbestos		•				0	ļ
	cetaldehyde	X			<u> </u>		0	Marian In Company
4	Illyl alcohol				.		0	1
	Ilyi chloride myl acetate	•	•	•		•	0	i
	niline		.			**************************************	0	#
	enzonitrile				•	4	0	·
	enzyl chloride	X			***************************************	april anno camera anno en e enco	0	
	utyl acetate					4	0	
	utylamine	*	1		1		0	
	arbary!				1 *	: 4	0	********
C	arbofuran	***		Manager	4			
	arbon disulfide				1. ************************************	manus a subsum a suscept or break of the con-	0	
	hlorpyrifos	• conservation of the contract				And the second second second	0	4
	oumaphos				in a second contract of the second contract o		0	
	resol rotonaldehyde	***********			4	 	0	alima e same e sa
	yclohexane	X			ediconomica de la la la la la la la la la la la la la		0	
	,4-D (2,4-Dichlorophenoxyacetic acid)	•		*	4	1	0	•
	Diazinon	•	ulper - an an arrows a section	emote and a contract	·		0	1
	Dicamba	**************************************	and the second s		decomment of the second		0	•
	Dichlobenil	4	*****				0	i
	Dichlone	1			-		0	
2	,2-Dichloropropionic acid	1	-4		en en en en en en en en en en en en en e	1. 1.	. 0	
	Dichlorvos	•		epiperinante de la companya del companya del companya de la compan		<u>.</u>	4	
	Diethyl amine				entransia de la compansia de l	‡	. 0	4
	Dimethyl amine	demand when the late of		minute and a second second	ng a mang papa mananananan men	<u></u>	0	ļ
C	Dinitrobenzene						0	ļ
	Diquat	i 4			*****	<u> </u>	0	ļ
	Disulfoton				maganina managani managani managani managani managani managani managani managani managani managani managani ma		0	+
	Diuron	+	gippers and the second second	enter enter en enter en enter enter enter enter enter enter enter enter enter enter enter enter enter enter en	upon o constant o constant		0	
	pichlorohydrin				·		0	4
	thion							

		Max \	Values	Avg \	/alues		
- N			Flow-		Flow-	No. Storm	
Pollutant	Believed		Weighted		Weighted	Events	
		Initial Grab	Composite	Initial Grab	Composite	Sampled	Units
Ethylene dibromide		•				0	
Formaldehyde	X		1		•	. 0	
Furfural		•	•			0	THE STREET
Guthion		-				0	
Isoprene				*** **** ** ** *** *		0	
Isopropanolamine		* ····				0	
Kelthane			•			0	
Kepone		<u> </u>	American de la companya del companya del companya de la companya d	i	:	0	
Malathion				<u>†</u>		0	A.A.A
· · · · . · . · . · . ·			·	ļ		0	
Mercaptodimethur					•	0	
Methoxychlor	÷	ļ	•		i ·	o	
Methyl mercaptan	- X		-	 		0	
Methyl methacrylate		 				0	
Methyl parathion				ļ		0	openia e constante de la const
Mevinphos		ļ		ļ		0	
Mexacarbate		Ļ				0	
Monoethyl amine		ļ	<u>.</u>			0	
Monomethyl amine	X			 	the same and the same of the s	0	
Naled				L		0	
Napthenic acid	: 		ļ			0	
Nitrotoluene	1 **** * * * * * * * * * * * * * * * * *	ļ		ļ			
Parathion				ļ	-	0	
Phenoisulfonate	X		<u> </u>	 	,	0	an order a service con
Phosgene	X		·	4		0	
Propargite		<u> </u>	ļ 	: 	Land to the second seco	0	
Propylene oxide			<u> </u>		4	0	
Pyrethrins				<u></u>	•	0	
Quinoline				·	·	0	
Resorcinol						0	
Stronthium			-	1		0	~~~
Strychnine		!	and the same of th	•		0	
Styrene	X					a	
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)				i .		0	
TDE (Tetrachiorodiphenyl ethane)			1			0	
2,4,5-TP [2-(2,4,5-Trichlorophenoxy) propanoic acid]		1		·	.	0	
Trichlorofan						0	
Triethylamine	×					0	
Trimethylamine		ĺ		1		0	
Uranium			-	1	:	0	high haloss of protein management manage
Vanadium						0	
Vinyl acetate	X				•	0	
Xylene	×	1	1	T	4,	0	
Xylenol						0	Appendix and the State of Alberta
Zirconium		 		1	·	0	

			1	Max V		Avg V	/alues		i.
		Pollutant	Believed Present	Initial Grab	Flow- Weighted Composite	Initial Grab	Flow- Weighted Composite	No. Storm Events Sampled	Units
t A	Re	equired Parameters				#1.1.17.14.00000.000000000000000000000000	Employee to the control of the contr		
	L	0&G	NA NA	0		0		. 12	mg/L mg/L
	<u>.</u>	BODS	NA NA	372		51.0		14	mg/L
		COD	NA NA	1630	pa 10 11 11 11 11 11 11 11 11 11 11 11 11	169		14	mg/L
		TSS	NA NA	1030		403	ļ	0	mg/L
		Total Nitrogen	NA NA		eran er er			Ö	mg/L
	·	Total Phosphorus	NA NA	8.1		7.2		14	SU
		PH	+					Annual Communication of the Co	************
t B	Po	i Dilutants included in facility effluent guidelines, or listed in NP	DES permit	i		•		1	
	,,,	TOC	NA	23.1		11.5		14	mg/L
	+	Ammonia	NA NA	:				0	
	+	TKN	NA	1				0	
		Nitrate-Nitrite	NA						Makes and some 17 a color Makel (1)
	1	Fluoride	NA			•	.	. 0	
	+	E.col	NA					0	
		Chromium, Total	NA				ş	0	
., ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	Copper, Total	NA			4		0	and a first of the same of the same
e en une abote e	1	Lead, Total	NA			udea in control in the control	ga e gaga menendeki	0	1
17.7 Target man	-	Nickel, Total	NA	-				0	ļ
	+	Zinc, Total	NA				<u></u>	0	
	1	Perfluoroctanoic Acid (PFOA)							
	+	Perfluorobutanoic Acid (PFBA)							
	1	Perfluorobutanesulfonamide (PFBSA)							
	1	Perfluorooctanesulfonamide (PFOSA)							
	1	Perfluorooctanesulfonate (PFOS)							
		Perfluorohexanoic Acid (PFHxA)			Se	ee Attachmen	t 2C-4		
		Perfluoroheptanoic Acid (PFHpA)							
	1	Perfluorobutanesulfonate (PFBS)							
- to an arrandor	-	Perfluorohexanesulfonate (PFHS)	_						
	+	Perfluorohexanesulfonate (PFHS) 2-(N-ethyl-PFOSA) acetic acid							
	-	The second secon			, ,				
		2-(N-ethyl-PFOSA) acetic acid	NA NA				***************************************	0	-
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid	NA NA				***************************************	0	***************************************
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene	NA NA					0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile	NA NA NA					0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene	NA NA NA NA			the second secon		0	An arrange of the second of th
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene	NA NA NA NA					0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chiorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene	NA NA NA NA NA					0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane	NA NA NA NA NA NA					0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1.2,4-trichlorobenzene hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane	NA NA NA NA NA NA					0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane	NA NA NA NA NA NA NA					0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1-1-trichloroethane Hexachloroethane 1,1-dichloroethane	NA NA NA NA NA NA NA NA					0 0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane	NA NA NA NA NA NA NA NA NA NA NA NA					0 0 0 0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chiorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane Chioroethane Chioroethane	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane Chloroethane Chloroform 1,2-dichlorobenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chiorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1-trichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chiorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane 1,1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1,2-dichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,2-dichlorobenzene 1,3-dichlorobenzene 1,1-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,4-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trians-dichloroethylene (trans-1,2-dichloroethene) 1,2-tdichloropropane 1,3-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropplene (cis- and trans-1,3-dichloroproppene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chiorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropplene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chiorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,1-dichlorobenzene 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chiorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropalene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,2-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methyl chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,2-dichloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropplene (cis- and trans-1,3-dichloroproppene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 2,4-dinitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,2-dichloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloroproppane 1,3-dichloropropplene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 4,6-dinitro-o-cresol (2-Methyl-4,6-dinitrophenol)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,2-dichloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropplene (cis- and trans-1,3-dichloroproppene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 2,4-dinitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

		:	Max \	Values	Avg V	'alues		
	Pollutant	Believed	!	Flow- Weighted		Flow- Weighted	No. Storm Events	11-14-
		Present	Initial Grab	Composite	Initial Grab	Composite	Sampled 0	Units
	Diethyl Phthalate	NA NA	,				0	
	Dimethyl phthalate Benzo(a) anthracene	NA NA	garage or access to a		· · · · · · · · · · · · · · · · · · ·		0	The second secon
	Benzo(a) pyrene	NA NA	+	*************************************			0	
	Benzo(b) fluoranthene (3,4-Benzofluoranthene)	NA	•	•			0	
	Benzo(k) fluoranthene	NA		*			0	
	Chrysene	NA		4			0	
	Acenaphthylene	NA NA		************			0	
	Anthracene	NA		·	·		0	
	Fluorene	NA	·	+		-	0	
	Phenanthrene	NA		ļ			0	
	Pyrene Tetrachloroethylene (Tetrachlorethene)	NA NA	-		·		0	
	Toluene	NA NA	0	†	0	aprilage of the second and the second at the second	12	ug/L
+	Trichloroethylene (Trichlorethene)	NA	·• · · · · · · · · · · · · · · · · · ·				0	
	Vinyl chloride	NA	·	1	· · · · · · · · · · · · · · · · · · ·		0	
	Cyanide, Total	NA					0	
	and particular and the second color and the second							
art C	Pollutants known or believed to be present (and listed in Tables	s 2F-2, 2F-3,	and 2F-4)	+				
	Table 2F-2			operators and a contract of the contract of th		<u> </u>	0	
	Bromide	•			•	•	0	
	Chlorine, Total Residual	*	-	4	 		0	
	Color	- -	Maria and a second service commence of		 	<u> </u>	0	
	Fecal Coliform Fluoride	×			ŧ		0	
	Nitrate-Nitrite	^					ō	
	Nitrogen, Total Organic	!			1	1	0	
Į.	Oil and Grease	X			1		0	
	Phosphorus, Total	X					0	
	Radioactivity	1					0	topological Digital Commence
	Sulfate	X					0	age a spage of the second contract of the
	Sulfite	X		÷	•		0	
	Surfactants	X		•	-	<u> </u>	0	
Name and the second	Aluminum, Total		·		+	<u> </u>	. 0	Market Street Co
	Barium, Total	. X					. 0	
	Boron, Total Cobalt Total	X				 	. 0	
	Iron, Total	x	*	t			0	
	Magnesium, Total	1		†	······	-	0	
	Molybdenum, Total	X			*		0	
	Manganese, Total	X	professional state of the state	1	:		0	-,,,,
	Tin, Total	X		1		***************************************	0	
COLOR WEST TRANSPORT	Titanium, Total				-	<u>'</u>	0	····
	Table 2F-3					ļ		
renew - warmenderly	Antimony, Total	X		·		<u> </u>	0	
	Arsenic, Total		 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		-	 	0	and the second second second
	Beryllium, Total		·	٠٠٠٠ ١٠٠٠٠	, program entresses	·	0	
	Cadmium, Total Chromlum, Total	1					0	1
	Copper, Total	X					0	
	Lead, Total	x					0	
	Mercury, Total	X			1	1	0	
	Nickel, Total	*					0	
	Selenium, Total	1				ili.	0	: -
	Silver, Total	I					0	
	Thallium, Total					1	0	1
	Zinc, Total	X					0	
	Cyanide, Total						0	1
	Phenols, Total	X	mangles of the community of the control of		-		0	
	Acrolein	İ			1		0	
	Acrylonitrile						U.	
	Benzene	1			1	1	. 0	1
	Bromoform	1			1	•	. 0	•
	Carbon Tetrachloride Chlorobenzene						0	
	Chlorodibromomethane	1	ı		7		Ō	1
	Chloroethane	I			ŧ	*	0	-
	THE COURT WHEN THE PARTY AND				1	1		1

			Max \	Values	Avg V			:
	Pollutant			Flow-	·	Flow-	No. Storm	
	, viidasis	Believed		Weighted		Weighted	Events	
		Present	Initial Grab	Composite	Initial Grab	Composite	Sampled	Units
:	Chloroform		İ) 	:		0	2
İ	Dichlorobromomethane		!		,		Õ	ł
	1,1-Dichloroethane	v						
	1,2-Dichloroethane	Х					•	
	1,1-Dichloroethylene						Ü	
	1,2-Dichloropropane							
	1,3-Dichloropropylene						0	
	Ethylbenzene	X	i	i			0	
Ì	Methyl Bromide		ļ	1	1		0	
	Methyl Chloride						0	
	Methylene Chloride			1			0	
	1,1,2,2,-Tetrachloroethane						0	
	Tetrachloroethylene						0.	
	Toluene	X					0	
	1,2-Trans-Dichloroethylene						0	
	1,1,1-Trichloroethane						0	
	1,1,2-Trichloroethane						ø	
	Trichloroethylene						0	
	Vinyl Chloride						0 '	
:	2-Chlorophenol						0	
	2,4-Dichlorophenol	The second secon			harmonia de la companio del companio del companio de la companio del companio de la companio del companio de la companio del companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio de la companio del la companio del companio del companio del companio del companio del companio del companio del companio del companio del com		0	
,	2,4-Dimethylphenol			'			0	
	4,6-Dinitro-O-Cresol						0	
	2,4-Dinitrophenol						0	
	2-Nitrophenol						0	
	4-Nitrophenol						0	
4	p-Chloro-M-Cresol						ō	1
	Pentachlorophenol			**************************************			0	
		X	,				0	i
4	Phenoi	^					•	
1	2,4,6-Trichlorophenol	į				:		
	2-methyl-4,6 dinitrophenol							
	Acenaphthene						u	
	Acenaphthylene						Q	
	Anthracene	i i			ı		0	
	Benzidine			i European State (Santa State (0	Marine sporter v. 1000 per
	Benzo(a)anthracene						0	
	Benzo(a)pyrene					i	0	
	3,4-Benzofluoranthene						0	Park talk day of the
	Benzo(ghi)perylene						0	
	Benzo(k)fluoranthene						0	kan marin
	Bis(2-chloroethoxy)methane						0	
	Bis(2-chloroethyl)ether						0	
	Bis(2-chloroisopropyl)ether		***************************************				0	
-	Bis(2-ethylyhexyl)phthalate						0	
	4-Bromophenyl Phenyl Ether	ļ					0	
	Butylbenzyl Phthalate			L	+		0	
	2-Chloronaphthalene						0	
+	4-Chlorophenyl Phenyl Ether						0	-
ŀ	Chrysene	,			1	ł	0	' ·
1	· · · · · · · · · · · · · · · · · · ·				è	i	ō	
ł	Dibenzo(a,h)anthracene				[!	ñ	
	1,2-Dichlorobenzene						0	
	1,3-Dichlorobenzene						Λ	
i	1,4-Dichlorobenzene	;			1	1	Λ.	
i	3,3'-Dichlorobenzidine				1	i i	^	
P •	Diethyl Phthalate							
	Dimethyl Phthalate	×						
	DI-N-Butyl Phthalate						Û	I
	2,4-Dinitrotoluene						0	
	2,6-Dinitrotoluene							
	Di-N-Octyphthalate						0	
	1,2-Diphenylhydrazine (as Azobenzene)	1					0	
+	Fluroranthene	1					0	, amproxime admin
	Fluorene	'				'	0	,
	Hexachlorobenzene						0	
	1-1-1-1-11-11-1-4-2-1-1-11-1-1-1-1-1-1-1						0	
	Hexachiorobutadiene						0	
	Hexachloroethane Indeno(1,2,3-cd)pyrene	;			1	i	0	1

		,	Max	Values	. Avg V	/alues		-
	Dalling			Flow-	1	Flow-	No. Storm	ĺ
	Poilutant	Believed		Weighted		Weighted	Events	
			Initial Grab	-	Initial Grab		Sampled	Uni
nga	Napthalene	1					0	†
1	Nitrobenzene	i	:		:		Ö	ł
	N-Nitrosodimethylamine						0	f
***	N-Nitrosodi-N-Propylamine		-	 			0	
	N-Nitrosodiphenylamine							ļ
	Phenanthrene					i	0	į
							0	
	Pyrene						0	
	1,2,4-Trichlorobenzene		1		:	,	0	
	Aldrin			Patrick			0	
ļ.	Alpha-BHC	· · · · · · • • · · · · · · · · · · · ·	·	•			0	1
į	Beta-BHC	,					0	
	Gamma-8HC						0	
home	Delta-BHC						0	
	Chlordane	:					0	
	4,4'-DDT	1 30 0000	•		· · · · · · · · · · · · · · · · · · ·	more or an annual conduction of	0	
3.00	4,4'-DDE		******				0	
	4,4'-DDD		•			······································	0	
No.	Dieldrin	er. Armenia da	******			-		
- 10	Alpha-Endosulfan		· +				0	
	and the second contract the second contract to the second contract t		<u> </u>	.		nagaman	0	-
	Beta-Endosulfan		i				0	·
	Endosulfan Sulfate			, .			0	
	Endrin		·				0	i
	Endrin Aldehyde						0	:
	Heptachlor		****				0	
-	Heptachlor Epoxide					water and the second	0	
	PCB-1242		·				0	*******
	PCB-1254	•		,		enero monero	0	
	PCB-1221						0	+
	PCB-1232		· · · · · ·			**************************************		+
	THE PROPERTY OF THE PROPERTY O						0	
	PCB-1248		·	Michigan - 1 - Ingganiya - maga		e program, com processor in consumerable	0	-
-	PCB-1260						0	
-	PCB-1016	_					0	
	Toxaphene					:	0	-
Ŧź	able 2F-4							••••
	Asbestos						0	
***	Acetaldehyde	X			******		0	***************************************
	Allyl alcohol	1				orași o Tamana e reconstruitorio	0	************
	Allyl chloride				•	• •	Õ	†
	Amyl acetate						0	£
								-
	Aniline						0	; •
	Benzonitrile				: 		0	<u> </u>
	Benzyl chloride	X					0	<u> </u>
	Butyl acetate				i		0	
-	Butylamine	The serve serve or verse strategy					0	T
-	Carbaryi						0	
	Carboturan						0	
	Carbon disulfide						0	.,
	Chlorpyrifos						0	•
	Coumaphos	· · · · · · · · · · · · · · · · · · ·	,		orani a ana ana ana ana		0	-
		·+						:
	Cresol					·····	0	+
	Crotonaldehyde						0	
	Cyclohexane	X .			i		0	
	2,4-D (2,4-Dichlorophenoxyacetic acid)						0	
	Diazinon						0	
	Dicamba	· † · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·		0	·
	Dichlobenil						0	4
	Dichlone					··· · · · · · · · · · · · · · · · · ·	0	
		-	· -					
	2,2-Dichloropropionic acid	. 					0	
	Dichlorvos						0	
	Diethyl amine	1					0	
	Dimethyl amine						0	
	Dinitrobenzene						0	•
	Diquat	1 .			÷	,	0	•
		·			····			
	Disulfoton						0	
	Diuron					i	0	•
	Epichlorohydrin						0	
-10	Ethlon	7			and the second of the second o		0	
			i				-	

	1	Max \	/alues	Avg \	/alues		
		Birth of the second section of the second	Flow-		Flow-	No. Storm	
Pollutant	Believed		Weighted		Weighted	Events	
	Present	initial Grab	Composite	Initial Grab	Composite	Sampled	Unit
Ethylene dibromide			*****	a		0	
Formaldehyde	X					0	
Furfural						0	4730.47.147.14
Guthion					**************************************	0	
Isoprene						0	Ambaba Van Van Van Van V
Isopropanolamine			i		g . , ,	0	
Kelthane						0	8 400 - 1 - 1 - 1 - 1 - 1 - 1
Kepone					4	0	ļ
Malathion					4	0	
Mercaptodimethur					Secretaria and modernic (1997)	0	
Methoxychlor		1				O	1
Methyl mercaptan					**************************************	0	
Methyl methacrylate	X			-		0	Ļ
Methyl parathion					described and the second secon	0	
Mevinphos			1			0	<u>.</u>
Mexacarbate			I		·		
Monoethyl amine						0	•
Monomethyl amine	X	1				0	
Naled		-	·			0	4
Napthenic acid	A CONTRACTOR OF THE PERSON NAMED IN CONTRACTOR OF THE PERSON NAMED IN CONTRACTOR OF THE PERSON NAMED IN CONTRACTOR OF THE PERSON NAMED IN CONTRACTOR OF THE PERSON NAMED IN CONTRACTOR OF THE PERSON NAMED IN CONTRACTOR OF T					0	dues :
Nitrotoluene						0	
Parathion	<u> </u>	•				0	·
Phenoisulfonate	X			Sales Company and Company and Company	•	0	According to the second
Phosgene	X			•		0	ti
Propargite		1				0	
Propylene oxide				orange of the second		0	
Pyrethrins			and the second second second second			0	
Quinoline			· · · · · · · · · · · · · · · · · · ·		. Para de samuelante de la composição de	0	
Resorcinol			1			0	1
Stronthium			1	magnification of the control	ago w survey and described and and and and and and and and and an	0	i
Strychnine					and the second second second second	0	1
The second secon	X	+		make a pro-		0	I
Styrene 2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	man and a second	+	1	distance and the second second		0	
TDE (Tetrachlorodiphenyl ethane)	and the second second		denning to Park 1911 - 1111 1	and the second s	Mariana de la companio della companio della compani	0	1
2,4,5-TP [2-(2,4,5-Trichlorophenoxy) propanoic acid]			T			. 0	Ī
		+	ļ	manuscriptor of the contract of	-	. 0	
Trichlorofan	X		1		1	0	
Triethylamine		+	+			0	1
Trimethylamine		1	nije seri i i i	• • • •		0	
Uranium		+	·			G	
Vanadium	X		***************************************		· · · · · · · · · · · · · · · · · · ·	0	1
Vinyl acetate	<u>x</u>	7	· · · · · · · · · · · · · · · · · · ·		<u> </u>	0	
Xylene			.i			Ō	
Xylenoi					4	0	

		Pollutant	Believed Present		Values Flow- Weighted Composite		/alues Flow- Weighted Composite	No. Storm Events Sampled	Units
t A	R	equired Parameters							
		0&6	NA NA	0	1 }	0	**************************************	12	mg/L
	- to	BOD5	NA		ļ			0	mg/L
		COD	NA NA	444		59.0		14	mg/L
	1.	TSS	NA	597		71.2		14	mg/L
		Total Nitrogen	NA NA		<u> </u>	4		0	mg/L
Majorania - Vi	1	Total Phosphorus	NA					0	mg/L
	*	pH	NA	7.6		7.1		14	SU
	1	The state of the s							
rt B	Po	ollutants included in facility effluent guidelines, or listed in NP	DES permit	1					
	****	TOC	NA	34.2		13.8		14	mg/i
		Ammonia	NA					0	Name and Administration of the Owner,
	1	TKN	NA		1			0	,
	+	Nitrate-Nitrite	NA					0	
2012110	<u> </u>	Fluoride	NA					0	
	+	€.coli	NA	.	#ap	****		0	
		Chromium, Total	NA NA	1		4		0	
	4	Copper, Total	NA NA		• · · · · · · · · · · · · · · · · · ·			0	
	- 	Lead, Total	NA NA		 	•	Landau Landau Landau Propinsi	0	
	+-	and the second s	NA NA	+	!	·		0	pa e y e nue depuir vermine
·		Nickel, Total		 	 			0	
		Zinc, Total	NA	<u> </u>		***************************************			
		Perfluoroctanoic Acid (PFOA)							
California para da	4	Perfluorobutanoic Acid (PFBA)	4						
9	4	Perfluorobutanesulfonamide (PFBSA)	-						
one over	1	Perfluorooctanesulfonamide (PFOSA)							
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\perp	Perfluorooctanesulfonate (PFOS)	-			_			
		Perfluorohexanoic Acid (PFHxA)	_		Se	e Attachment	2C-4		
	I	Perfluoroheptanoic Acid (PFHpA)							
4.4		Perfluorobutanesulfonate (PFBS)							
4-0-1	1	Perfluorohexanesulfonate (PFHS)]						
	T	2-(N-ethyl-PFOSA) acetic acid	7						
arrigra a tarta in	+	2-(N-methyl-PFOSA) acetic acid	1						
	- 1								
		Acenaphthene	NA					0	
· · · · · · · · · · · · · · · · · · ·		Acenaphthene	NA NA					0	
Market and the	-	Acenaphthene Acrylonitrile					Anaday ()		**************************************
	-	Acenaphthene Acrylonitrile Benzene	NA					0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride	NA NA NA					0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene	NA NA NA NA					0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene	NA NA NA NA					0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene	NA NA NA NA NA					0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichlorobenzene	NA NA NA NA NA NA					0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane	NA NA NA NA NA NA					0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane Hexachloroethane Hexachloroethane	NA NA NA NA NA NA NA NA					0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chiorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1-1-trichloroethane 1,1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane	NA NA NA NA NA NA NA NA NA NA NA					0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chiorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1,2-trichloroethane	NA NA NA NA NA NA NA NA NA NA NA NA NA					0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chiorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1-1-trichloroethane 1,1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chiorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1,2-trichloroethane	NA NA NA NA NA NA NA NA NA NA NA NA NA					0 0 0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chiorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1,2-trichloroethane Chioroethane	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane Hexachloroethane 1,1-trichloroethane 1,1-trichloroethane Chloroethane Chloroethane Chloroform	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,1-dichloroethane 1,1-dichloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane Chloroethane	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-tdichloroethane 1,1-tchloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1-dichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,3-dichloroethane 1,1,4-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2.4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1.1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1-dichloroethane Chloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropprapae	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,2-trichloroethane Hexachloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane Chloroethane Chloroethane 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1-dichloroethane Chloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane 1,1,2-dichloroethane Chloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane 1,1,2-trichloroethane 1,1,2-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trians-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,2-trichloroethane Chloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,2-trichloroethane Chloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloropropane) 1,3-dichloropropale 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fiuoranthene Methylene chloride (Dichloromethane)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane Hexachloroethane 1,1-dichloroethane Chloroethane 1,1-dichloroethane 1,1-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (trans-1,2-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropplene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-1-trichloroethane 1,1-1-trichloroethane Hexachloroethane 1,1-2-trichloroethane Chloroethane 1,1-2-trichloroethane 1,1-2-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloroproppane 1,3-dichloroproppane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethyliphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,2-trichloroethane Hexachloroethane 1,1,2-trichloroethane Chloroform 1,2-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-trans-dichloroethylene (trans-1,3-dichloropropane) 1,3-dichloropropane 1,3-dichloropropalee (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2-4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-1-trichloroethane 1,1-1-trichloroethane Hexachloroethane 1,1-2-trichloroethane Chloroethane 1,1-2-trichloroethane 1,1-2-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloroproppane 1,3-dichloroproppane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethyliphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,2-trichloroethane Hexachloroethane 1,1,2-trichloroethane Chloroform 1,2-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-trans-dichloroethylene (trans-1,3-dichloropropane) 1,3-dichloropropane 1,3-dichloropropalee (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,2-trichloroethane Hexachloroethane 1,1,2-trichloroethane Chloroethane 1,1,2-dichloroethane Chloroethane Chloroethane 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1-dichloroethane Chloroethane 1,1-2-trichloroethane 1,1-2-trichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methyl chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroform 1,2-dichloroethane 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrophenol 2-nitrophenol 4-nitrophenol 2,4-dinitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1-trichloroethane 1,1-trichloroethane Hexachloroethane 1,1-trichloroethane 1,1-trichloroethane Chloroethane 1,1-dichloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (trans-1,2-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropopylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4,6-dinitro-o-cresol (2-Methyl-4,6-dinitrophenol)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroform 1,2-dichloroethane 1,3-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,3-dichloropropane 1,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrophenol 2-nitrophenol 4-nitrophenol 2,4-dinitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

			Max	Values	Avg \	/alues	1	
	Pollutant	Believed		Flow- Weighted		Flow- Weighted	No. Storm Events	
		Present	Initial Grab	Composite	Initial Grab	-	Sampled	Units
	Diethyl Phthalate	NA				i i	0	
	Dimethyl phthalate	NA NA		#		 	0	
	Benzo(a) anthracene Benzo(a) pyrene	NA NA		·		+		
	Benzo(b) fluoranthene (3,4-Benzofluoranthene)	NA					0	maci sassa (s
	Benzo(k) fluoranthene	NA	• • • • • • • • • • • • • • • • • • • •				0	term on the System on the con-
	Chrysene	NA					0	
	Acenaphthylene	NA NA				ļ	0	<u>.</u>
	Anthracene Fluorene	NA NA			anne a mar a morar com mpetiti anno ca comb	i de la companya del companya de la	0	water to the second
	Phenanthrene	NA NA		4			0	Association Feb. 1. 1. 111
	Pyrene	NA.		•			0	I
	Tetrachloroethylene (Tetrachlorethene)	NA		***********			0	CONTRACTOR OF STATE O
	Toluene	NA	. 0	ļ	0		12	ug/L
	Trichloroethylene (Trichlorethene)	NA NA	.				O O	MARK 1 100 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Vinyl chloride Cyanide, Total	NA NA					0	**********
nakan men	Cyanide, rotal		de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la	<u> </u>				eerbi menskein sen mit t
art C	Pollutants known or believed to be present (and listed in Tabl	es 2F-2, 2F-3,	and 2F-4)					
	Table 2F-2			*			0	elide Thirdenburkhing Control II
	Bromide	· *		•			0	
	Chlorine, Total Residual Color	portunitivo de <mark>la propositivo</mark> de la constanta de la constant	garante i sacriminario e moderni emissi e moderni	• · · · · · · · · · · · · · · · · · · ·			0	
	Fecal Coliform		pos	.			0	
	Fluoride	x					0	
	Nitrate-Nitrite						0	
	Nitrogen, Total Organic					1	0	ĺ
	Oil and Grease	X X					0	
	Phosphorus, Total Radioactivity	*					. 0	ļ
	Sulfate	×		A COLUMN TO THE PROPERTY OF THE PARTY OF THE	general graduit and the property of the same		0	
	Sulfite	X					0	<u> </u>
	Surfactants	X					O	
	Aluminum, Total	an men armenen armenen armenen armenen armenen armenen armenen armenen armenen armenen armenen armenen armenen		\$			0	.
	Barium, Total	X		•	er etc		0	
	Boron, Total Cobalt Total	X		*	waran i i nees a an ear an ie			
	Iron, Total	X					. 0	
	Magnesium, Total	•		• • •			0	
	Molybdenum, Total	X		***********			0	
	Manganese, Total	X	k	*			0	
	Tin, Total	x		to company and a second			0	<u> </u>
	Titanium, Total Table 2F-3				THE RESIDENCE COME WAS ARRESTED FOR		y	
~	Antimony, Total	. X			k		0	and the second s
	Arsenic, Total					aria. For today bytogens	0	
	Beryllium, Total			·			0	ļ
	Cadmium, Total						0	1
	Chromium, Total Copper, Total	×					ň	
	Lead, Total	x.					ō	
	Mercury, Total	X					0	
	Nickel, Total						0	
	Selenium, Total		•	•			0	
	Silver, Total			.	er der a. a er anner den erste er er er er er er		0	L
	Thallium, Total						0	ł
	Zinc, Total Cyanide, Total	, х					. 0	
	Phenols, Total	· x		!			Ö	1
	Acrolein			•	telenoment in an animal intel [®] Administration the		0	
	Acrylonitrile						0	
	Benzene	,					0	
	Bromoform						0	:
	Carbon Tetrachloride						0	
	Chlorodibromomethane							1
	Chloroethane						ō	1
	The second section of the second seco					1	0	

			Max	Values	Avg '	/alues	•	
	Poliutant	Believed		Flow- Weighted		Flow- Weighted	No. Storm Events	
s granovenické nem		Present	Initial Grab	Composite	Initial Grab	Composite	Sampled 0	Units
	Chloroform Dichlorobromomethane		1	-			0	
1	1,1-Dichloroethane	,	1	*	1		. 0	
	1,2-Dichloroethane	. X					0	
	1,1-Dichloroethylene						0	
	1,2-Dichloropropane						0	
	1,3-Dichloropropylene						0	
	Ethylbenzene	x					0	
ì	Methyl Bromide						0	
1	Methyl Chloride	•	·				0	
	Methylene Chloride						. 0	
	1,1,2,2,-Tetrachloroethane	9			1		0	
	Tetrachloroethylene						0	
100	Toluene	X					0	
	1,2-Trans-Dichloroethylene						0	
	1,1,1-Trichloroethane						0	7
	1,1,2-Trichloroethane						0	
	Trichloroethylene						0	
	Vinyl Chloride			i	:		0	1
	2-Chlorophenol						0	
	2,4-Dichlorophenol					İ	0	
	2,4-Dimethylphenol						0	
	4,6-Dinitro-O-Cresol						9	
	2,4-Dinitrophenol						0	
	2-Nitrophenol						0	
	4-Nitrophenol			1		ı	0.	1
	p-Chloro-M-Cresol						0	-
	Pentachlorophenol					The same of the sa	0	
	Phenol	X				1	0	
Ì	2,4,6-Trichlorophenol					i	0	1
	2-methyl-4,6 dinitrophenol						0	
	Acenaphthene						0	
	Acenaphthylene						0	
	Anthracene						0	
	Benzidine				******		0	
	Benzo(a)anthracene				+	-	0	
	Benzo(a)pyrene		<u> </u>		1		0	<u> </u>
	3,4-Benzofluoranthene				4	ļ	Acres de la companyación de la c	
	Benzo(ghi)perylene			ļ			0	
	Benzo(k)fluoranthene			<u> </u>		Ļ	0	_
	Bis(2-chloroethoxy)methane			ļ			0	
-	Bis(2-chioroethyl)ether			1			0	ļ
	Bis(2-chloroisopropyl)ether					ļ	0	ļ
	Bis(2-ethylyhexyl)phthalate				<u> </u>	ļ	0	<u> </u>
	4-Bromophenyl Phenyl Ether					<u> </u>	0	+
	Butylbenzyi Phthalate		ļ				0)
	2-Chioronaphthalene		i	-	4	-	0	+
	4-Chlorophenyl Phenyl Ether					* *	0	1
	Chrysene					†	0	
1	Dibenzo(a,h)anthracene				1	1	0	1
	1,2-Dichlorobenzene						0	
	1,3-Dichlorobenzene						0	
	1,4-Dichlorobenzene			:	,		0	
	3,3'-Dichlorobenzidine				l	1.	0	
	Diethyl Phthalate						0	
	Dimethyl Phthalate	x					0	
	DI-N-Butyl Phthalate					,	0	
-	2,4-Dinitrotoluene			magazina coloriana de la decisión de la coloria de la colo			0	<u> </u>
	2,6-Dinitrotoluene						0	ļ
	DI-N-Octyphthalate	I				<u> </u>	0	
	1,2-Diphenylhydrazine (as Azobenzene)	1	I			and a consider a second	0	<u> </u>
******	Fluroranthene	**************************************					0	ĺ
!	Fluorene						0	
	Hexachiorobenzene						. 0	
	Hexachlorobutadiene						0	
	Hexachloroethane						0	
1	Indeno(1,2,3-cd)pyrene		i		ł		0	1
	Isophorone	-passessessessessessessessessessessessesse			†		0	1

			Max	Values	Avg \	/alues		
	Pollutant	Believed		Flow- Weighted		Flow- Weighted	No. Storm Events	
			Initial Grab		Initial Grab		Sampled	Unit
	Napthalene	Present	initial Grab	Composite	miliai Grab	Composite	0	Oille
	Nitrobenzene			i			. 0	1
	N-Nitrosodimethylamine	1		1	i	i	. 0	i
	N-Nitrosodi-N-Propylamine		*	# nav 4 0 . / and 4 0 7 10 10 10 10 10 10 10 10 10 10 10 10 10	p. B. propaggio i communicacio por di restraca della degli con contra i di	ALCO CONTRACTOR TO REPORT TO		CARROL
	N-Nitrosodiphenylamine	.	•	•		t		
Í	Phenanthrene			3		1	ŏ	
	Pyrene						0	
	1,2,4-Trichlorobenzene						ō	
	Aldrin						0	E.
	Alpha-BHC		•	÷		+	0	••••••••••••••••••••••••••••••••••••••
	Beta-BHC	•			· ·	• • • • • • • • • • • • • • • • • • •	. 0	
	Gamma-BHC	•		•			0	1
	Delta-BHC			•	*** *** ***		0	i
-	Chlordane			-		·	0	
	4,4'-DDT	*	<u>†</u>	•	**************************************	• · · · · · · · · · · · · · · · · · · ·	0	
	4,4'-DDE	**************************************			p de grant de acceptante participat de contrata de la contrata del la contrata del la contrata de la contrata de la contrata del la contrata de la contrata de la contrata del la contrata del la contrata del la contrata del la contrata del la contrata del la contrata del la contrata del la contrata del la contrata del la contrata del la contrata del la contrata del la contrata de	Anancia sa martina suremon co:	0	*
+	4,4'-DDD	1		∔			0	#
	Dieldrin	<u> </u>		+	•		. 0	
+	Alpha-Endosulfan	•	***************************************		•		0	
	Beta-Endosulfan	4	•		-		0	-
4.	Endosulfan Sulfate				<u> </u>		. 0	
+	Endrin		•	1	†	! ··	0	
-4-	Endrin Aldehyde	in control	<u> </u>		+		0	indication of the national desire.
+		+	<u> </u>	<u></u>		*****************	0	
	Heptachlor	4	.			ļ	0	
	Heptachlor Epoxide		4				0	
-	PCB-1242	•••••	•	in a comment of the second second			0	-
	PCB-1254	.	i			: •	0	
	PCB-1221	-	•	Commence of the commence of th		• • • • • • • • • • • • • • • • • • •	0	ļ
	PCB-1232	ļ	.	*		.	. 0	
	PCB-1248		<u> </u>	*	 		0	ļ.
+	PCB-1260	· •	ļ			<u> </u>	<u> </u>	
4	PCB-1016		·		<u> </u>	•	0	<u> </u>
	Toxaphene		İ	l	†		0	
Ta	able 2F-4	•	: *			\$400000 (10000000000000000000000000000000	 	· · ·
	Asbestos		<u> </u>	·		•	0	į
i i	Acetaldehyde	X	1	.			. 0	4
	Allyl alcohol	L		4 .		i	0	+
ļ	Allyl chloride	ì			•	<u>.</u>	0	
	Amyl acetate	<u> </u>	: •,		÷	•	0	
	Aniline		: 4	Apparent Commission of the State of the Stat		•	0	
	Benzonitrile		·		·		0	
	Benzyl chloride	X	•	÷			0	ļ
	Butyl acetate	i 4		·	į	.	0	:
	Butylamine		1	1	·		0	1 ************************************
-	Carbaryl	ļ	: +	•		• A dec. 10	0	. .
	Carbofuran	Ļ	<u> </u>	+		4xmmva min	0	
	Carbon disulfide		4				0	<u>.</u>
	Chlorpyrifos	f +	4	+	· -	************	0	
	Coumaphos	· •	ļ			-	0	
-	Cresol	i		4		·	<u> </u>	
	Crotonaldehyde				+		0	1
	Cyclohexane	X	: † ·			Ļ	0	-
4	2,4-D (2,4-Dichlorophenoxyacetic acid)	<u>.</u>	ļ	<u>.</u>	į	**********	0	ļ
	Diazinon	· 		i			0	
i	Dicamba	ļ				i	0	ļ
	Dichlobenii			4	1		0	
	Dichlone			nghaban ayan in an an an an an an an an an an an an an	<u> </u>	ļ	0	
	2,2-Dichloropropionic acid						0	
. !	Dichlorvos			•		Market Market Control of the Control	0	
1	Diethyl amine				1	1	0	4
+	Dimethyl amine		1	•		1	0	
	Dinitrobenzene		#	y	1		0	
1	Diquat	*** *		1			0	i
	Disulfoton	AND THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	1				. 0	T
	Diuron		+	Andrews Control of		t a a a super con contract to a contract or	0	
	Epichlorohydrin	*	·		1	Processor of the second second second	0	†
- maranipar co								
	Ethion	A \$6. 1 (A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1	*				0	

		Max \	/alues	Avg \	/alues	_	:
			Flow-		Flow-	No. Storm	
Pollutant	Believed	1	Weighted		Weighted	Events	1
	Present	Initial Grab		Initial Grab	Composite	Sampled	Units
Ethylene dibromide						o	
Formaldehyde	×	*	:	: '		0	İ
Furfural			*			0	
Guthion		•	Control of the contro			0	+
Isoprene			•			Ō	1
		•	•			0	
Isopropanolamine		ļ		.		0	
Kelthane		-		ł		0	
Kepone				†		0	
Malathion		•				0	
Mercaptodimethur		+		ļ 		0	
Methaxychlor			•	1			
Methyl mercaptan							
Methyl methacrylate	X			ļ		0	
Methyl parathion				 	·	0	
Mevinphos						0	ļ
Mexacarbate				_		i	
Monoethyl amine				ļ		0	
Monomethyl amine	X				· · · · · · · · · · · · · · · · · · ·	0	
Naled						0	
Napthenic acid			1	ļ	:	0	ļ
Nitrotoluene					: •	0	ļ
Parathion				ļ		0	
Phenoisulfonate	X		<u>.</u>	į		0	
Phosgene	X				·	0	
Propargite	1		•			0	
Propylene oxide						0	
Pyrethrins						0	
Quinoline						0	
Resorcinol						0	
Stronthium			i			0	
Strychnine						0	
Styrene	X					0	
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)						0	and the second second
TDE (Tetrachlorodiphenyl ethane)	i					0	
2,4,5-TP (2-(2,4,5-Trichlorophenoxy) propanoic acid]		***************************************	:	1		0	
Trichlorofan	ann anns a de servicio de la companio del companio de la companio della companio					0	
Triethylamine	X	1	4			0	
Trimethylamine				•		0	
Uranium		1	<u> </u>	******		0	
Vanadium		+			1	0	
Vinyl acetate	X	1			!	0	
Xylene Xylene	×		denomination of the second		Barbara Cara Cara Cara Cara Cara Cara Car	0	
TO AND THE PROPERTY OF THE PRO		1	 			0	1
Xylenal Zirconium		Anna and a second secon		÷		0	†

			Max \	/alues	Avg \	/alues	N - 6	
	Pollutant			Flow-		Flow-	No. Storm	
		Believed	Indebal Crab	Weighted	Initial Grab	Weighted Composite	Events Sampled	Units
		Present	initial Grab	Composite	Initial Grap	Composite	Jampieu	*************
rt A	Required Parameters O&G	NA	0		0	ļ.	12	mg/L
	BOD5	NA	T		;	A	0	mg/L
	COD	NA	76.7		29.5		14	mg/L
	TSS	NA	201		47.9		14	mg/L
	Total Nitrogen	NA		, ,		<u> </u>	0	mg/L
	Total Phosphorus	NA					. 0	mg/L
	рН	NA	8.8		7.1		14	SU
	A CONTRACTOR OF THE PROPERTY O		<u></u>		0.46-11-001	and A01)		ar a saledon a relevida (her -)
rt B	Pollutants included in facility effluent guidelines, or listed in NF	NA NA	24.2	astewater (i.e	11.1	and AUI)	14	mg/L
	TOC	NA NA	24.2		1		0	
nacional de l'accomme	Ammonia TKN	NA NA	+		†		0	* ·· · · · · · · · · · · · · · · · · ·
	Nitrate-Nitrite	NA	 	w e			0	İ
	Fluoride	NA			*******		0	1
	E.coli	NA					0	
	Chromium, Total	NA				ļ	0	.
	Copper, Total	NA NA	.	·			0	1 4
	Lead, Total	NA NA			4	ļ	0	المراجعة والمستنفض المستنف
	Nickel, Total	NA NA			•	de conserva lacer, relacementalisticalità e l'Al		
	Zinc, Total	NA	· • • • • • • • • • • • • • • • • • • •			L	0	<u> </u>
	Perfluoroctanoic Acid (PFOA)	4						
	Perfluorobutanoic Acid (PFBA)	-						
	Perfluorobutanesulfonamide (PFBSA)							
	Perfluorooctanesulfonamide (PFOSA)							
	Perfluorooctanesulfonate (PFOS)	-		Se	e Attachmen	+ 2C-4		
	Perfluorohexanoic Acid (PFHxA)	-		36	te Accounting	. 20-4		
	Perfluoroheptanoic Acid (PFHpA)	4						
	Perfluorobutanesulfonate (PFBS)	_						
	(Active)	1						
	Perfluorohexanesulfonate (PFHS)							
	2-(N-ethyl-PFOSA) acetic acid	4						
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid	NA NA	ngorek Marakananan	,		erora.	0	ļ
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene	NA NA	:	·	ed a management of the contrac	1	0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile	NA NA NA	:				decision and a second contract of the second	100 mm and 100 mm
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene	NA					0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride	NA NA					0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene	NA NA NA					0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene	NA NA NA NA					0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene	NA NA NA NA NA					0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene	NA NA NA NA NA					0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane	NA NA NA NA NA NA					0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1-dichloroethane 1,1,1-trichloroethane Hexachloroethane	NA NA NA NA NA NA NA					0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane	NA NA NA NA NA NA NA NA NA NA NA					0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1-dichloroethane 1,1,1-trichloroethane Hexachloroethane	NA NA NA NA NA NA NA NA NA NA NA NA NA					0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1-trichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-trichloroethane 1,1-trichloroethane 1,1-trichloroethane Chloroethane Chloroform	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1-dichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1-dichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane Chloroethane Chloroform	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroetnylene (1,1-dichloroethene)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,4-dichlorobenzene 1,4-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,2-trichloroethane 1,2-trichloroethane 1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane Chloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloroppane	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,2-trichloroethane 1,2-trichloroethane 1,2-trichloroethane 1,1-dichloroethane Chloroethane Chloroethane Chloroethane 1,2-trichloroethene 1,2-dichlorobenzene 1,3-dichlorobenzene 1,4-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropapane 1,3-dichloropropapee 1,3-dichloropropapee (cis- and trans-1,3-dichloropropene)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichlorobenzene 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,4-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloroppapae 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichlorobenzene 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,2-dichlorobenzene 1,1-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropane 1,3-dichloroproppene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,1-dichlorobenzene 1,2-dichlorobenzene 1,2-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,1-dichloroethylene (trans-1,2-dichloroethene) 1,2-trans-dichlorobenyene (trans-1,2-dichloropropane 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,2-dichlorobenzene 1,1-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloroproppane 1,3-dichloroproppane 1,3-dichloroproppane 1,3-dichloroproppane 1,3-dichloroproppane 1,3-dichloroproppane 1,4-dimethyliphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,2-trichloroethane 1,1-dichloroethane 1,2-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichlorobenzene 1,2-dichlorobenzene 1,2-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trians-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane Chloroethane Chloroform 1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropoppane 1,3-dichloropoppane 1,3-dichloropoppane 1,3-dichloropoppane 1,3-dichloropoppane 1,3-dichloropoppane 1,3-dichloropoppane 1,4-dichloroproppane 1,5-dichloropoppane 1,5-dichloroproppane 1,6-dichloroproppane 1,7-dichloroproppane 1,8-di	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,2-trichloroethane 1,1-dichloroethane 1,1-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropopane 1,3-dichloropopopane 1,3-dichloropopopane 1,3-dichloropopopane 1,3-dichloropopopane 1,3-dichloropopopane 1,4-dichloropropopane 1,5-dichloropopopane 1,6-dichloropopopane 1,7-dichloropropopane 1,8-dichloropopopane 1,8-	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-dichloroethane 1,1-trichloroethane 1,1-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,4-dichloroethylene (1,1-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloropane 1,3-dichloropane 1,3-dichloropane 1,2-dichloropane 1,2-dichloropane 1,2-dichloropane 1,2-dichloropane 1,3-dichloropane 1,3-dichloropane 1,4-dichloropane 1,4-dichloropane 1,5-dichloropane 1,5-dichloropane 1,6-dichloropane 1,7-dichloropane 1,8-dichloropa	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,2-dichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,3-dichlorobenzene 1,3-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,1-dichloropenzene 1,1-dichloropenzene 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-trans-dichloropenzene 1,2-dichloropropane 1,2-dichloropropane 1,2-dichloropropane 1,2-dichloropropane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,1-dichloropenzene 1,2-trians-dichloroethylene (trans-1,2-dichloroethene) 1,2-trans-dichloropenzene 1,2-dichloroproppane 1,3-dichloroproppane 1,3-dichloroproppane 1,3-dichloroproppane 1,3-dichloroproppane 1,4-dimthylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 2,4-dinitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,2-trichloroethylene (trans-1,2-dichloroethene) 1,2-trans-dichloroethylene (trans-1,2-dichloroethene) 1,2-dichloroproppane 1,3-dichloroproppane 1,3-dichloroproppane 1,3-dichloroproppane 1,3-dichloropropylene (cis- and trans-1,3-dichloropropene) 2,4-dimethylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4,6-dinitro-o-cresol (2-Methyl-4,6-dinitrophenol)	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	2-(N-ethyl-PFOSA) acetic acid 2-(N-methyl-PFOSA) acetic acid Acenaphthene Acrylonitrile Benzene Carbon tetrachloride Chlorobenzene 1,2,4-trichlorobenzene Hexachlorobenzene 1,1,1-trichloroethane 1,1,1-trichloroethane Hexachloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-trichloroethane 1,1,2-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,1-dichlorobenzene 1,1-dichloropenzene 1,2-trians-dichloroethylene (trans-1,2-dichloroethene) 1,2-trans-dichloropenzene 1,2-dichloroproppane 1,3-dichloroproppane 1,3-dichloroproppane 1,3-dichloroproppane 1,3-dichloroproppane 1,4-dimthylphenol Ethylbenzene Fluoranthene Methylene chloride (Dichloromethane) Methyl chloride (Chloromethane) Hexachlorobutadiene Naphthalene Nitrobenzene 2-nitrophenol 4-nitrophenol 2,4-dinitrophenol	NA NA NA NA NA NA NA NA NA NA NA NA NA N					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

				Max	Values	Avg \	/alues Flow- Weighted	No. Storm Events	:
		Poliutant	Believed	: 	Flow- Weighted				
			Present	Initial Grab	Composite	Initial Grab	Composite	Sampled	Units
	Ţ	Diethyl Phthalate	NA	AND A DESCRIPTION OF THE PERSON OF THE PERSON	••••••			0	
		Dimethyl phthalate	. NA				†	0	
	-	Benzo(a) anthracene	NA				-	0	
	+	Benzo(a) pyrene	NA					0	
	-	Benzo(b) fluoranthene (3,4-Benzofluoranthene)	NA	pl				0	
	1	Benzo(k) fluoranthene	NA					0	
Dies der ver und 1909	*	Chrysene	NA					0	
		Acenaphthylene	NA					0	
		Anthracene	NA		The second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second sections of the second section section sections of the second section section section sections of the second section section section sections of the section			0	
		Fluorene	NA					0	
		Phenanthrene	NA				•	0	
and the second second		Pyrene	NA		+			0	
		Tetrachloroethylene (Tetrachlorethene)	NA					0	
	1	Toluene	NA	0		0		12	ug/L
	1	Trichloroethylene (Trichlorethene)	NA.	kan ar - er e - ea				0	
		Vinyl chloride	NA			•		0	•
		Cyanide, Total	NA					0	
	-							<u> </u>	
rt C		ollutants known or believed to be present (and listed in Tai	bles 2F-2, 2F-3,	and 2F-4)	ļ				
	Ta	able 2F-2			• · · · · · · · · · · · · · · · · · · ·			0	
	1	Bromide		i	1	į		0	
		Chlorine, Total Residual			***************************************			0	
		Color						0	
		Fecal Coliform						0	
		Fluoride	x					0	
	-	- Nitrate-Nitrite		ì					ı
	į	Nitrogen, Total Organic						0	
		Oil and Grease	X					0	
		Phosphorus, Total	×					0	!
	ļ	Radioactivity			·		<u>.</u>	0	*****************
	ļ	Sulfate	X		·	tomer more an intercers of	the second section of the second	0	
		Sulfite	*	·	<u> </u>			. 0	
		Surfactants						0	
	ļ.,	Aluminum, Total Barium, Total	×			Parameter and transfer of the Control Con-		. 0	
	+	Boron, Total		· •	ļ			·	
		Cobalt Total	x					. 0	
	****	Iron, Total	+	.	+			0	
	į	Magnesium, Total	^		+			. 0	
	.	Molybdenum, Total	x					0	
	Ļ	Manganese, Total	- x	•	 	4	ļ	0	
	+	Tin, Total				•	ļ	Ö	
	·	Titanium, Total				******************	in a first property of the second	0	
	To	able 2F-3	· 	•		!	<u> </u>		
	14	Antimony, Total	×	#	 			0	
		Arsenic, Total		 	†		†	0	İ
	÷	Beryllium, Total	·····	•		4		0	
	į ·	Cadmium, Total	+	•	† · · · · · · · · · · · · · · · · · · ·	***************************************		0	**************************************
		Chromium, Total	· ·		1		i	0	
		Copper, Total	x					0	
		Lead, Total	x					0	
	1	Mercury, Total	x	* {				0	
	-	Nickel, Total	1 77		1		•	0	•
		Selenium, Total	1	k c c	1		1	0	}
		Silver, Total				·	to the second se	0	Ţ
		Thailium, Total				**** i	•	0	1
	1	Zinc, Total	×	ł	1.			0	
		Cyanide, Total	7					Ō	
		Phenois, Total	x	i	¥			0	-
		Acrolein	+	•		<u>.</u>		0	
		Acrylonitrile	1	,	1			0	1.
		· · · · · · · · · · · · · · · · · · ·						0	
	į.	Benzene	ı	1	I .		1	0	
	i	Bromoform Carbon Tetraphlacida	-	1	1	1		0	ŧ.
		Carbon Tetrachloride	A 100					0	
		Chlorobenzene		1	1		1	0	
	,	Chlorodibromomethane	1	I .		1	! .	0.	}
		Chloroethane		1			ı	0	1
		2-Chloroethylvinyl Ether		1			1	U	i

			Max '	Max Values		'alues		
	Balludona			Flow-		Flow-	No. Storm	1
	Pollutant	Believed	1	Weighted		Weighted	Events	
		Present	Initial Grab	Composite	Initial Grab	Composite	Sampled	Units
	Chloroform						0	
	Dichlorobromomethane	į	1				0	-
	1,1-Dichloroethane						0	
	1,2-Dichloroethane	×					0	
	1,1-Dichloroethylene						0	
	1,2-Dichloropropane						0	
	1,3-Dichloropropylene						0	
	Ethylbenzene	· x					0	
	Methyl Bromide	1					0	
	Methyl Chloride	,	1				0	!
	Methylene Chloride						0	
	1,1,2,2,-Tetrachloroethane							
					,			i
	Tetrachioroethylene	x					č	
	Toluene	^ .					ž	
	1,2-Trans-Dichloroethylene							
	1,1,1-Trichloroethane						0	
	1,1,2-Trichloroethane						Q	
	Trichloroethylene						. 0	
	Vinyl Chloride						0	100
1	2-Chlorophenol) 		Markey operation of the second		
	2,4-Dichlorophenol						0	
!	2,4-Dimethylphenol						6 .	100
	4,6-Dinitro-O-Cresol						. O. W	
	2,4-Dinitrophenol					4 4 2	0.4	
	2-Nitrophenol						٥	
	4-Nitrophenol						ō	
***************************************	p-Chloro-M-Cresol				1		0	ŧ
	The state of the s				•		0	
1	Pentachlorophenol		i	1				5
	Phenol	, X	!	:				t e
	2,4,6-Trichlorophenol		!		:		0	*
	2-methyl-4,6 dinktrophenol				•		0	
	Acenaphthene						0	
	Acenaphthylene						0	
	Anthracene		,				0	
1	Benzidine	:	·				0.	
	Benzo(a)anthracene						0	
	Benzo(a)pyrene						0	
	3,4-Benzofluoranthene		*****************************	••• • • • • • • • • • • • • • • • • •			0	
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Jon T. Lindekugel Senior Vice President 3M Supply Chain

3M Center, Building 220-14E-11 St. Paul, MN 55144-1000 651 737 6046 Office jtlindekugelk@mmm.com



To:

Plant Managers/Facility Managers

From:

Jon Lindekugel-Senior Vice President, 3M Supply Chain

Subject:

Certifications Under Environmental, Health and Safety Laws

Date:

October 20, 2017

As you are aware, Title V of the Clean Air Act Amendments of 1990 requires that most 3M facilities apply for and receive a Title V air permit. The Title V permit process is implemented through the respective state agency with jurisdiction over air permitting matters. Once the permit is issued, facilities must make certifications regarding its compliance status for the previous year with the Title V permit.

Some of these state laws implementing the Title V program require that filings and certifications be made by a corporate officer or someone delegated by a corporate officer. Other federal or state environmental, health and safety programs may also require that filings and certifications be made by a corporate officer or someone delegated by a corporate officer.

3M plant/facility managers are responsible for the overall control of the day-to-day operations at 3M facilities and, as such, are in the best position to make such certifications regarding the information submitted in Title V permit applications and the environmental, health and safety status of his/her particular facility.

In my capacity as a corporate officer of 3M, I delegate to plant/facility managers the responsibility to make Title V permit-related certifications and associated filings on behalf of each respective plant. I also delegate to plant/facility managers the authority to make other environmental, health and safety regulatory program-related certifications, permit applications and authorizations that may require filings and certifications be made by a corporate officer or someone delegated by a corporate officer. In making such certifications, please consult with your assigned Environment, Health & Safety plant contact or with Karna Peters in the Office of General Counsel.

Thank you,

Jon T. Lindekugel Senior Vice President 3M Supply Chain 3M Center, 220-14E St. Paul, MN 55144-1000

CC:

Manufacturing Directors
John Ostergren, Director, EHS

Paul Narog, Manager, Environmental Operations Karna Peters, Associate General Counsel, Supply Chain

EHS Plant Contacts

3M Decatur NPDES Permit Renewal Application

Public Version



3M Decatur Decatur, Alabama

Submittal Date: August 31, 2018

Permit Number: AL0000205

Table of Contents

3M Decatur **NPDES Permit Renewal Application**

Basis for Confidentiality Claim

ADEM Form 187 – NPDES Individual Permit Application Supplementary Information for **Industrial Facilities**

Attachment 187-1: Business Activity

Attachment 187-2: Wastewater Discharge Information Attachment 187-3: Biocides and Corrosion Inhibitors

Attachment 187-4: Wastewater Treatment Sludges and Wastes

EPA Form 1 – General Information

Figure 1-1:

Topographic Map

EPA Form 2C – Application for Permit to Discharge Wastewater

Figure 2C-1:

Water Flow Diagram

Attachment 2C-2: Operations Contributing Flow and Treatment Technologies Narrative Description of Wastewater Treatment Facilities

Design Description of Wastewater Treatment System

Attachment 2C-3: Effluent Characteristics

Attachment 2C-4: Effluent Characterization – Perfluoroalkyl and Polyfluoroalkyl Substances

(PFAS)

Attachment 2C-5:

EPA Form 2F – Application for Permit to Discharge Stormwater Discharges Associated with **Industrial Activity**

Attachment 2F-1: Regulated Outfalls

Figure 2F-2:

Site Drainage Map

Attachment 2F-2:

Description of Sub-watersheds and Outfalls

Attachment 2F-3:

Significant Materials Exposure

Stormwater Management Practices

Material Loading, Access, and Cleaning Stations

Landscaping Applications

Attachment 2F-4:

Significant Leaks or Spills

Attachment 2F-5:

Discharge Information

Basis for Confidentiality Claim

Decatur Alabama August 2018

The information labeled as "3M CONFIDENTIAL" in this submittal relates to methods of manufacturing and processing which are unique to 3M Company. This trade secret information derives actual independent economic value from not being generally known to our competitors in the optical industry and others who could obtain economic value from the disclosure of such information. This information may include, but may not be limited to, the process flow diagram(s), process throughput(s), emission factor(s), and/or raw material application rate(s). Emission rates are not claimed as confidential.

"3M CONFIDENTIAL" information is customarily held in confidence and is not available for public viewing. 3M Company takes measures to protect the confidentiality of its trade secrets, including: (1) disclosure only to those 3M employees who have a need to know, and to other persons, such as vendors, who are under contractual obligation to hold the information in confidence; (2) controlled access to the 3M's facilities where the information is located and used, including but not limited to posted security guards at the entrance to 3M's facilities, the display of employee passes, and the escort of visitors to 3M's facilities; and, (3) all available legal measures to protect the confidential information concerning the processes utilized at its facilities from disclosure to third parties. These steps are regularly taken in filings made with governmental and regulatory agencies, and in dealings with 3M's customers and suppliers. 3M intends to continue to take these measures to protect confidential information.

Specific to this submittal, the following information has been claimed "3M CONFIDENTIAL":

Maximum Design Capacities i. Disclosure of this information could be used by a competitor to determine the magnitude of 3M's business and 3M's manufacturing capabilities, and therefore could negatively impact 3M's competitive position.

Emission Factors ii.

Emission factors, when used with emission rate information, can be used to back-calculate the maximum design capacity of the associated equipment. Disclosure of the emission factors essentially provides disclosure of maximum design & production capacity information, which could be used by a competitor to determine the magnitude of 3M's business and 3M's manufacturing capability, and therefore could negatively impact 3M's competitive position.

Facility and/or Process Flow Diagrams and/or Descriptions iii. This information could be used by a competitor to obtain information about the production methodology itself, specifically any proprietary steps 3M may use.

1400 State Docks Road Decatur, AL 35601





Sent Certified Mail Return Receipt Requested

Alabama Department of Environmental Management Attention: Mr. Theo Pinson Water Division – Industrial Permit Section 1400 Coliseum Boulevard Post Office Box 301463 Montgomery, Alabama 36130-1463

Subject:

3M Decatur – NPDES Permit Renewal Application (AL0000205)

Dear Mr. Pinson:

Please find attached two copies each of the public and confidential version of the completed NPDES permit renewal applications for the 3M Decatur facility. Included with these documents are ADEM Form 187 and EPA Forms 1, 2C, and 2F, along with referenced attachments. A check for \$19,005 for the combined NPDES permit application fee is also enclosed.

As you will see in Form 2F of the permit application, 3M is requesting that several stormwater outfalls be added to the permit. 3M is also requesting that several other outfalls be removed from the permit. In general, the proposed stormwater outfall changes reflect the impact of ongoing remediation capping activities in the south fields, various plant-related construction projects, and the availability of an updated, higher resolution, site-wide topographic map. Table 1 summarizes the requested changes and the basis for the requests.

Table 1: Proposed Changes to Stormwater Outfalls

Outfall Number(s)	Request	Reason
DSN 007		Industrial activities no longer take place in these sub-watershed areas and
DSN 008		construction of the multi-layer cap, in accordance with the NPDES
DSN 010	Remove	
DSN 011		Remedial Action Agreement, eliminates stormwater contact with former
DSN 012		sludge incorporation areas
DSN 009	Remove	Soil excavation in the southwest corner of the site (capping related), has eliminated stormwater site drainage to this outfall, as shown on the site drainage map
DSN 014	Add	Higher resolution mapping capabilities
DSN 015	Add	Construction of hazardous material trailers storage containment system
DSN 016	Add	Construction of new process wastewater treatment system (fluoroelastomer wash water carbon)
DSN 017	Add	Higher resolution mapping capabilities
DSN 018	Add	Building expansion and drainage modifications

Notwithstanding our request to remove stormwater Outfalls DSN 007, 008, 010, 011, and 012 from the facility's NPDES permit, 3M proposes to continue to monitor these outfalls for perfluorinated substances to evaluate the effectiveness of the multi-layer cap.

Sampling, including screening for EPA priority pollutants, is underway as required for purposes of satisfying the requirements of Forms 2C and 2F of the permit application. Sampling of the process outfall DSN 001 has been completed and the results are included in Form 2C. Stormwater sampling will occur when there is a rain event which produces runoff that can be sampled. We will send the results of the stormwater outfall sampling to you as soon as they are available.

Form 2C, Part C does not list any perfluorinated and polyfluorinated substances (PFAS), formerly referred to as perfluorochemicals (PFCs). 3M's application, however, includes a summary of our monitoring under the existing permit for PFAS constituents. It also includes descriptions of current production operations with the potential to generate wastewater containing such substances and the substances expected to be present. We note in this regard that reliable quantification of those PFAS constituents in process wastewaters is limited by the currently available analytical methods and lack of analytical standards. As ADEM is aware, moreover, 3M Decatur is planning to install a granular activated carbon (GAC) treatment system for its fluoroelastomer wash water. 3M is also planning to install a GAC treatment system at the wastewater treatment plant. Both GAC systems are expected to begin operation in 2019. The installation of these GAC systems is expected to further reduce PFAS discharges to the chemical sewer.

Also enclosed are two copies of a report that includes information on the facility's cooling water intake structure, in compliance with 33 USC 1251, Section 316(b) regulations. This information satisfies the conditions described in Part IV.D. of the current NPDES permit and is required to be submitted 180 days prior to permit expiration.

If you have any questions regarding this application, please contact me at (256) 552-6300 or via email at mlhowell@mmm.com.

Michelle Howell Site Manager

Cc:

Carie Mathison, 3M Corporate EHS James Banks, 3M Decatur EHS

Stacee Bland, 3M Decatur EHS

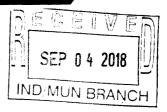
NPDES Permit Renewal Application – Public Version (2 copies)

NPDES Permit Renewal Application – Confidential Version (2 copies)

Certified Check

316(b) Information: Cooling Water Intake Structure Submittal (2 copies)

316(b) Information: Cooling Water Intake Structure (CWIS) Data



Prepared for:



3M Decatur 1400 State Docks Road Decatur, Alabama 35601



Responsive partner. Exceptional outcomes.

Prepared by:

WENCK Associates, Inc. 1800 Pioneer Creek Center Maple Plain, MN 55359 Phone: 763-479-4200 Fax: 763-479-4242

Table of Contents

1.0	EXEC	UTIVE SUMMARY 1-1							
2.0	INTRODUCTION 2-1								
	2.1 2.2 2.3	Section 316(b) Regulatory Overview							
3.0	SOUR	CE WATER PHYSICAL DATA 3-1							
	3.1 3.2 3.3	Location and Physical Configuration							
4.0	COOL	ING WATER INTAKE STRUCTURE DATA 4-1							
	4.1 4.2 4.3 4.4	Location and Configuration							
5.0	SOURCE WATER BASELINE BIOLOGICAL CHARACTERIZATION DATA 5-1								
	5.1 5.2 5.3 and E 5.4 5.5 5.6 5.7	Data Availability and Methodology							
6.0	COOL	ING WATER SYSTEM DATA 6-1							
	6.1 6.2 6.3	Narrative Description							
7.0 STAI		EN METHOD OF COMPLIANCE WITH IMPINGEMENT MORTALITY7-1							
	7.1	40 CFR 125.94(C)(2)7-1							
8.0	ENTR	AINMENT PERFORMANCE STUDIES 8-1							
	8.1 8.2 8.3	Available Data							
9.0	OPER	ATIONAL STATUS 9-1							



10.0 REFERENCES	0-1
TABLES	
Table 5-1: Species Identified in Wheeler Reservoir in Autumn 2011 (TVA, 2012)5-2 Table 5-2: Fish community metrics used to calculate RFAI scores (TVA, 2012)5-3 Table 5-3: Prominent Fish collected from Wheeler Reservoir between 2008 and 2011 (TV 2012)	
Table 5-4: List of threatened, endangered, and other protected species for Morgan Count Alabama5-8	у,
Table 5-5: Comparison of Cooling Water Flow Rates5-9	
Table 6-1: Monthly Average CWIS Flow Rates	

FIGURES

- 1. Cooling Water Intake Structure and Source Water Location Map
- 2. Water Balance Diagram

APPENDICES

A Cooling Water Intake Structure Engineering Drawings

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1.0 Executive Summary

3M operates a cooling water intake structure (CWIS) at its facility in Decatur, Alabama. The facility has prepared this 316(b) information to determine compliance with the provisions set forth in the Clean Water Act (CWA), as amended in 33 US C1251 Section 316(b) regulations – Final Regulations To Establish Requirements for Cooling Water Intake Structures at Existing Facilities and Amend Requirements at Phase I Facilities (316 (b) or the Rule) that became effective on October 14, 2014.

The purpose of this document is to provide the Alabama Department of Environmental Management (ADEM) with the comprehensive application submittal required of the facility to comply with the 316(b) Rule. This document also satisfies the conditions described in Part IV.D of the facility's current National Pollutant Discharge Elimination System (NPDES) permit number AL0000205. The 316(b) regulations are intended to reduce impingement and entrainment of fish and other aquatic organisms at cooling water intake structures used by certain existing power generation and manufacturing facilities for the withdrawal of cooling water from waters of the United States.

To assist in characterizing the source water near the 3M CWIS, several studies published by the Tennessee Valley Authority (TVA) at its Browns Ferry Nuclear (BFN) Plant, also located on the Wheeler Reservoir, were reviewed. The area of Wheeler Reservoir near the 3M CWIS exhibits similar physical and biological characteristics as the area near the BFN Plant for the reasons listed below.

- 1. General proximity: The 3M CWIS is located just six miles upstream of the BFN Plant.
- 2. Dimensions: Similar cross-sectional areas.
- 3. Waterbody Classification: Both locations are within the same reach of the Tennessee River as assigned by ADEM for classification purposes.

Additionally, there is precedence for using data and studies characterizing a source water that are published by others for the purpose of satisfying the information requirements in 316(b).

The data presented in the reviewed TVA reports indicate that the fish community within the Wheeler Reservoir is stable and that the BFN Plant is not having an impact on the fish community within the reservoir. Given the following:

- The 3M CWIS has significantly less flow (approximately 0.2% to 0.5% of the BFN Plant cooling water flow),
- The 3M CWIS has a maximum design through-screen intake velocity of less than 0.5 feet per second,
- The location of the 3M CWIS in the same section of the Wheeler Reservoir as the BFN intake,
- The applicable inherent variation of the fish population within the Wheeler Reservoir,

it can also be concluded that the operation of the 3M CWIS is not measurably impacting the fish community within the reservoir.



3M operates a cooling water intake structure (CWIS) at its facility in Decatur, Alabama. The facility has prepared this 316(b) information to determine compliance with the provisions set forth in the Clean Water Act (CWA), as amended in 33 US C1251 Section 316(b) regulations – Final Regulations To Establish Requirements for Cooling Water Intake Structures at Existing Facilities and Amend Requirements at Phase I Facilities (316 (b) or the Rule) that became effective on October 14, 2014.

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2.1 SECTION 316(B) REGULATORY OVERVIEW

The CWA establishes the basic structure for regulating discharges of pollutants into the waters of the United States and regulating quality standards for surface waters. Under the CWA, EPA has implemented pollution control programs such as setting wastewater standards for industry. EPA has also set water quality standards for all contaminants in surface waters. EPA has given primacy to ADEM to issue NPDES permits that regulate industries that discharge pollutants to surface waters in Alabama.

According to the Federal Register, the purpose of 316(b) regulations is to reduce impingement and entrainment of fish and other aquatic organisms at cooling water intake structures used by certain existing power generation and manufacturing facilities for the withdrawal of cooling water from waters of the United States. This rule establishes requirements under section 316(b) of the Clean Water Act (CWA) for existing power generating facilities and existing manufacturing and industrial facilities that are designed to withdraw more than 2 million gallons per day (MGD) of water from waters of the United States and use at least 25 percent of the water they withdraw exclusively for cooling purposes. This regulation went into effect in October 14, 2014.

2.2 APPLICABILITY

3M utilizes a CWIS to withdraw water from the Tennessee River. Over the past three years, the CWIS has withdrawn approximately 4.35 MGD on average for 100 percent cooling purposes; therefore, 3M is subject to the 316(b) regulations.

2.3 DATA AVAILABILITY AND METHODOLOGY

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To assist in characterizing the source water near the 3M CWIS, several studies published by the Tennessee Valley Authority (TVA) at its Browns Ferry Nuclear (BFN) Plant, also located on the Wheeler Reservoir, were reviewed and are incorporated by reference in three chapters of this report (2.0, 4.0, and 7.0). The 3M CWIS is located at Tennessee River Mile (TRM) 300 and the BFN Plant is located at TRM 294. The area of Wheeler Reservoir near the 3M CWIS is assumed to exhibit similar physical and biological characteristics as the area near the BFN Plant for the reasons listed below.



- 1. General proximity: The 3M CWIS is located just six miles upstream of the BFN Plant.
- 2. Dimensions: Similar cross-sectional areas.
- 3. Waterbody Classification: Both locations are within the same reach of the Tennessee River as assigned by ADEM for classification purposes.

Additionally, there is precedence for using data and studies characterizing a source water that are published by others for the purpose of satisfying the information requirements in 316(b). In 2017, Ascend Performance Chemicals, a neighboring facility located at TRM 301, submitted 316(b) information for ADEM's approval. That report included data from several TVA studies of the BFN Plant intake and discharge (Enersolv, 2017).



3.1 LOCATION AND PHYSICAL CONFIGURATION

The Tennessee River is formed near Knoxville, Tennessee, and ultimately flows into the Ohio River at Paducah, Kentucky. The Wheeler Reservoir, located in northern Alabama on the Tennessee River, was created by the Tennessee Valley Authority (TVA) by the construction of the Wheeler Dam in 1936. Wheeler Reservoir is approximately 60 miles long and borders Lauderdale, Lawrence, Limestone, Morgan, and Madison counties in Alabama. According to the TVA, Wheeler Reservoir has approximately 1,027 miles of shoreline, 67,070 acres of water surface, and a volume of 1,050,000 acre-feet at the normal summer pool elevation of 556 feet mean sea level (MSL).

Wheeler Dam is located at Tennessee River Mile (TRM) 274.9 based upon the US Army Corps of Engineers Tennessee River Charts. The Guntersville Lake Dam, located at TRM 349, controls the flow of the Tennessee River upstream of Wheeler Reservoir. 3M's cooling water intake structure (CWIS) is located on the south shore of the Wheeler Reservoir at approximately TRM 300. The Browns Ferry Nuclear (BFN) Plant is located at TRM 294. A map showing the geographical locations and configurations of Wheeler Reservoir, Wheeler Dam, Guntersville Dam, the BFN Plant, and the 3M CWIS is attached as Figure 1.

The reach of the Tennessee River between TRM 289.3 and TRM 305 has the following classifications, as determined by ADEM:

ADEM Assessment Unit ID: AL06030002-1107-102

Category: 5

Downstream: Five miles upstream of Elk River (TRM 289.3)

Upstream: US Highway 31

Classification: Fish and Wildlife, Swimming

River Basin: Tennessee

2016 303(d) List Impairments: Nutrients

3.2 SALINITY AND TEMPERATURE REGIMES

In October 2011, the TVA conducted sampling for various water quality parameters including temperature and conductivity at various elevations in the water column within the vicinity of the BFN Plant. The full methodology of the sampling methods along with the monitoring results can be found within the following report:

TVA, July 2012. Biological Monitoring of the Tennessee River Near the Browns Ferry Nuclear Plant Discharge Autumn 2011.

In general, results from the sampling locations upstream of the BFN Plant discharge are more representative of the ambient conditions in Wheeler Lake compared to the results from downstream locations. The TVA study reported that water temperatures upstream of the BFN Plant discharge ranged from 68 to 75 degrees F depending on distance from bank and depth, and all temperature profiles generally indicated a decrease in temperature as depth increased. The study concluded that water temperatures were within the range expected for lower mainstem Tennessee River reservoirs in autumn, and the profiles indicated little thermal stratification (TVA, 2012).



Conductivity upstream of the BFN Plant ranged from 178 to 190 μ S/cm. Conductivity is a measure of the ability of a solution to conduct electricity and is related to salinity. Based on the water quality results that were reported including temperature and salinity, the study concluded that the water in Wheeler Reservoir near the BFN Plant during autumn 2011 was of a quality capable of supporting, in fair ecological health, a balanced indigenous population of the type expected for this reservoir (TVA, 2012).

3.3 HYDROLOGY AND GEOMORPHOLOGY

Reservoirs are characterized by three zones: an inflow zone, having characteristics more riverine; a forebay zone immediately upstream from a dam, having more lacustrine characteristics; and a transition zone, which provides a buffer in the middle of the reservoir. As water flows downstream from the inflow, velocity decreases as the cross-sectional area of the reservoir increases. Areas within the transition zone may exhibit high flow, low flow, or even negative flows depending on the rate water is released through the upstream and downstream dams.

The TVA has previously characterized the area of Wheeler Reservoir near BFN Plant as a transition zone where the velocity of water depends on the rate water released through Guntersville and Wheeler Dams (TVA, 2006). It is assumed that the area near the 3M CWIS exhibits similar characteristics.

The TVA operates Guntersville Dam and Wheeler Dam to maintain navigable depths throughout the Wheeler Reservoir, with water levels between 550.6 ft MSL and 556.3 ft MSL. During the 2015 water-year, the winter pool elevation at the Tennessee River at Decatur Gage (USGS Station 03577150, located at TRM 305) ranged from 550.6 ft MSL to 554.0 ft MSL. The summer pool elevation ranged from 553.2 ft MSL to 556.6 ft MSL.

Tennessee River daily flow data through Wheeler Dam were provided by TVA from July 2008-July 2018. Below is a summary of the data:

Average Daily Flow: 50,392 cfs Minimum Daily Flow: 8,557 cfs Minimum Guaranteed Flow: None

Stream information for the Tennessee River based on previous ADEM permit rationale documentation for the facility is shown below.

7Q10: 6,436 cfs 7Q2: 11,320 cfs 1Q10: 4,827 cfs

Annual Average Flow: 43,901 cfs



4.0 Cooling Water Intake Structure Data

4.1 LOCATION AND CONFIGURATION

3M's cooling water intake structure (CWIS) is located on the south shore of the Wheeler Reservoir on the Tennessee River at approximately Tennessee River Mile (TRM) 300 (34°38'55.5"N, 87°03'04.3"W). The CWIS consists of a pumping station building that houses three 6-stage vertical turbine pumps manufactured by Fairbanks Morse, Model 17H. The pumps are each specified to provide 3750 gallons per minute (gpm) at 265 ft of total discharge head. The motors for each pump are 300 HP, 1180 RPM, 2300 V. The pumps are set on the operating floor at elevation 565.00 ft MSL.

Each pump withdraws river water from a dedicated sump, which are arranged parallel to the bank. River water entering each sump flows through a bar screen, two fine screens in series, and finally through a $36" \times 36"$ sluice gate. Each fine screen assembly is approximately 21'-8" tall and 6'-11" wide, including framing, and has six screen sections arranged vertically. The mesh is 18-gauge stainless steel wire with approximately 1/2" spacing. The bottom elevation of the fine screens is 539.33 ft MSL, the bottom elevation of the intake channel is 538.0 ft MSL, and the bottom of the flow channel, approximately 450 ft from the screens, is approximately 522 ft MSL.

4.2 NARRATIVE DESCRIPTION OF OPERATION

The 3M cooling water system is operated on a pressure control loop. The pumps located in the CWIS pumping building are used to provide the pressure to the loop, and are operated in lead-lag mode, normally with only one pump operating at a time. The header pressure is monitored and when a low pressure set point is reached it calls for the primary pump to start. When a high pressure set point is reached the pump is stopped. If the pressure continues to fall to a secondary low pressure set point the second pump is started.

Because the manufacturing plant operates continuously, the cooling water system is operational 24 hours per day, seven days per week, 365 days per year. There is minimal seasonal variation in the operation of the cooling water system. 100% of the water used in the cooling water system is supplied by the CWIS pumps.

The full capacity design of the 3M CWIS with all three pumps operational, concurrently, would intake 16.2 million gallons per day (MGD), or 25.1 cubic feet per second (cfs). However, 3M rarely operates all 3 pumps concurrently; the facility typically operates 1 or 2 pumps at any given time. The average cooling water flow from January 2015 through May 2018 was 4.35 MGD (6.73 cfs), with a maximum daily flow of 7.00 MGD (10.8 cfs).

4.3 FLOW DISTRIBUTION

Refer to Figure 2 for a flow distribution and water balance diagram that includes all sources of water to the facility and discharges.

4.4 ENGINEERING DRAWINGS

Attached in Appendix A are engineering drawings of the cooling water intake structure, pumps, and screens.



5.0 Source Water Baseline Biological Characterization Data

5.1 DATA AVAILABILITY AND METHODOLOGY

Relevant biological data are available for the Wheeler Reservoir from previously collected publicly available data sets. The Tennessee Valley Authority (TVA) has completed studies documenting the biological community in the Wheeler Reservoir at their Browns Ferry Nuclear (BFN) Plant located approximately 6 miles downstream from the 3M CWIS. The TVA conducted annual biological monitoring within the Wheeler Reservoir from 2000 through 2009. The most recent data collected by TVA occurred in autumn 2011. The results of the 2011 monitoring efforts are summarized here to describe the existing biological community within the Wheeler Reservoir. The existing data are relevant to the 3M CWIS because of the relative proximity of the study location in the Wheeler Reservoir and the similarity in the lake cross sections at each site. The reservoir is more than 45 miles long. Both sites are within the transition zone (middle third) of the lake.

In 2011, the fish community sampling methods conducted by the TVA included boat electrofishing and gill nets, continuing sampling methods from previous monitoring efforts. Fish community data were collected from two stations, one located up stream of the TRM 292.5). Fifteen electrofishing runs and ten overnight gill net sets were completed at each of the two fish monitoring locations. The TVA assessment also collected benthic macroinvertebrate community data along three transects, two downstream of the discharge plume (at TRM 290.4 and 293.2) and one upstream of the discharge point (TRM 295.9). The full methodology of the sampling methods along with the monitoring results can be found within the following report:

TVA, July 2012. Biological Monitoring of the Tennessee River Near the Browns Ferry Nuclear Plant Discharge Autumn 2011.

Data presented in the referenced TVA report includes the fish community monitoring data from that year as well as summary info from previous sampling years within the Wheeler reservoir. These data are the most recent publicly available data for the Wheeler Reservoir. These data are part of a long-term monitoring effort by the TVA to establish fish community conditions and trends within the Wheeler Reservoir.

5.2 LIST OF SPECIES FOR ALL LIFE STAGES

At total of 35 different fish species were collected from the two sampling stations. The most abundant species collected were gizzard shad, Mississippi silverside, and threadfin shad, comprising 66 percent of the total catch (TVA, 2012). The fish community data from the TVA 2011 monitoring efforts are shown in Table 5-1.



Table 5-1: Species Identified in Wheeler Reservoir in Autumn 2011 (TVA, 2012)

- abic b z. opecies			2011 (1 4	, , , , , , , , , , , , , , , , , , ,	
Common Name	Scientific Name	Downstream TRM 292.5	Upstream TRM 295.9	Total Combined Catch	
Longnose Gar	Lepisosteus Osseus	12	0	12	
Gizzard Shad	Dorosoma Cepedianum	679	645	1324	
Common Carp	Cyprinus Carpio	6	1	7	
Golden Shinner	Notemigonus Crysoleucas	26	. 1	27	
Spotfin Shiner	Cyprinella Spiloptera	14	109	123	
Redbreast Sunfish	Lepomis Auritus	0	. 2	2	
Green Sunfish	Lepomis Cyanellus	47	66	113	
Bluegill	Lepomis Macrochirus	123	238	361	
Largemouth Bass	Micropterus Salmoides	110	32	142	
White Crappie	Pomoxis Annularis	3	4 .	7	
Skipjack Herring	Alosa Chrysochloris	2	4	6	
Northern Hog Sucker	Hypentelium Nigricans	1	0	1	
Spotted Sucker	Minytrema Melanops	14	7	21	
Black Redhorse	Moxostoma Duquesnei	0	8	8	
Longear Sunfish	Lepomis Megalotis	27	56	83	
Smallmouth Bass	Micropterus Dolomieu	. 20	29	49	
Spotted Gar	Lepisosteus Oculatus	9	5	14	
Threadfin Shad	Dorosoma Petenense	303	240	543	
Largescale Stoneroller	Campostoma Oligolepis	1	0	1	
Smallmouth Buffalo	Ictiobus Bubalus	6	10	16	
Black Buffalo	Ictiobus Niger	2	4	6	
Silver Redhorse	Moxostoma Anisurum	0	1	1	
Blue Catfish	Ictalurus Furcatus	2	4	6	
Channel Catfish	Ictalurus Punctatus	50	55	105	
Flathead Catfish	Pylodictis Olivaris	11	14	25	
White Bass	Morone Chrysops	18	8	26	
Yellow Bass	Morone Mississippienses	11	0 -	11	
Warmouth	Lepomis Gluosus	1	2	3	
Redear Sunfish	Lepomis Microlophus	28	14	42	
Spotted Bass	Micropterus Punctulatus	3		4	
Black Crappie	Pomoxis Nigromaculatus	2	1	3	
Longperch	Percina Caprodes	1.0	. 0	1	
Freshwater Drum	Aplodinotus Grunniens	12	30	42	
Mississippi Silverside	Menidia Audens	352	279	631	
Chestnut Lamprey	Ichthyomyzon Castaneus	0	1	1	
	Total Species	35	Total Indiv.	3767	



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Fish community information was used to calculate a Reservoir Fish Assemblage Index (RFAI) score at each of the two monitoring locations near the BFN Plant. An RFAI protocol to assess the health of the fish community was developed by the TVA for the Wheeler Reservoir. RFAI scores for the Wheeler Reservoir were based on 12 metrics evaluating four general categories of the fish community including: species richness and composition; trophic composition; abundance; and fish health (TVA, 2012). The individual metrics used to calculate RFAI scores for the Wheeler Reservoir fish community monitoring efforts are listed in Table 5-2.

Table 5-2: Fish community metrics used to calculate RFAI scores (TVA, 2012)

Metric Name Total Number of Species 1 Number of Centrachid Species (i.e. Sunfish) 2 **Number of Benthic Invertivore Species** 3 **Number of Intolerant Species** 4 Percentage of Tolerant Individuals 5 Percent Dominance by One Species 6 Percentage of Non-Indigenous Species 7 **Number of Top Carnivore Species** 8 Percentage of Individuals as Top Carnivores 9 Percentage of Individuals as Ominvores 10 Average Number of Fish Individuals Per Run 11

Percentage of Individuals Anomolies

RFAI scores were calculated from the above 12 metrics and result in a score range from 12 to 60. Quality ratings for the scores included: Very Poor (12-21); Poor (22-31); Fair (32-40); Good (41-50) and Excellent (51-60). RFAI scores are robust measures of fish community health because they use multiple metrics to evaluate the composition of the species and individuals at site or within a water body and therefore have low susceptibility to changes in scores that would be due to only one species or small changes in physical conditions in a water body (TVA, 2012). The RFAI scores and quality ratings for the two sampling stations in 2011 were as follows:

- Upstream RM 295.9: 40 Fair
- Downstream RM 292.5: 38 Fair

During a period of 1993 through 2011, the TVA calculated RFAI scores for 17 years at five different stations within the Wheeler Reservoir. The scores across all stations for all sampling years ranged from 30 to 52. The average RFAI scores for the two stations near the BFN was 41 for each station, which is the low end of the "Good" rating category. The two scores from 2011 are similar to the long-term averages from both sites and not measurably different from the scores collected the prior five years at either site. The differences between the upstream and downstream RFAI scores from 2011 are within the range of variation for RFAI scores and therefore not significantly different from each other. Additionally, the scores are both similar to the long term averages for each site and also similar to the scores the recent prior years in 2008 and 2009 (TVA, 2012).



12

5.3 IDENTIFICATION OF SPECIES AND LIFE STAGES MOST SUSCEPTIBLE TO IMPINGEMENT AND ENTRAINMENT

Fish community data was collected by the TVA near the BNF within the Wheeler Reservoir in 2008, 2009, and 2011. There was some fluctuation in the total catch of all individuals, number of species present, and numbers of individuals from each species across these monitoring years. However, there were several species that comprised a significant portion of the total catch across those monitoring years. As the most prominent species in this section of the Wheeler Reservoir, they are therefore the species most susceptible to impingement or entrainment at a CWIS (TVA, 2012). The most prominent species collected near the BNF from the three most recent sample years are presented in Table 5-3.

Table 5-3: Prominent Fish collected from Wheeler Reservoir between 2008 and 2011 (TVA, 2012)

Common Name	2008		20	2009		2011	
	TRM 292.5	TRM 295.9	TRM 292.5	TRM 295.9	TRM 292.5	TRM 295.9	
Gizzard Shad	353	308	382	309	679	645	
Spotfin Shiner	3	2	29	5	14	109	
Bluegili	176	80	87	58	123	238	
Largemouth Bass	138	97	107	99	110	32	
Longear Sunfish	84	23	32	13	27	56	
Smallmouth Bass	17	6	56	2	20	29	
Threadfin Shad	1	4	16	14	303	240	
Channel Catfish	27	89	66	110	50	55	
White Bass	57	28	3	4.	18	8	
Inland Silverside	887	261	639	389	0	0	
Mississippi Silverside	0	0	0	0	352	279	

5.4 LIFE CYCLES AND SEASONAL/DAILY ACTIVITIES OF RELEVANT SPECIES

There are several species that have been prominent in the total catch of the fish community monitoring efforts within the Wheeler reservoir (see Table 5-3). Relevant life history information of these prominent species is presented in the following sections.

Gizzard Shad

From: https://www.arkansasstripers.com/gizzard-shad.htm

Gizzard shad are found in lakes, rivers, and reservoirs across the Midwest and eastern half of the US. They are a prevalent species in reservoirs across the southern US. Gizzard shad are omnivorous filter feeder taking both phytoplankton and zoo plankton. The adults have more than 400, fine gill rakers that can catch minute plankton. Gizzard Shad have an unusual digestion process for fish. The vegetable material they eat is ground in a gizzard like stomach. Some bottom material is often ingested while feeding. Lake and reservoir populations use both the shoreline and open water areas. Essentially it is an open water species, living at or near the surface, however, they have been collected at depths of up to 100 feet. Conditions for gizzard shad populations are optimal in warm, fertile, shallow bodies of water with soft mud bottoms, high turbidity, and relatively few predators. The



gizzard shad spawns in spring, typically from May to June, when water temperatures reach the mid-60s to mid-70s.

Spotfin Shiner

From: https://www.fishbase.de/summary/Cyprinella-spiloptera

Spotfin shiner are a small shiner species that grows to lengths of up to 12 centimeters. They are found in rivers and streams across the upper Midwest and into the southeast US as far south as Alabama. Spotfin shiners live along sandy areas and gravel bars in pools and runs of creeks and small to medium rivers. They are also occasionally found in large river systems, which is how they can ultimately end up in a reservoir of a large river. They feed on the surface on zooplankton and aquatic insects. Spotfin shiners spawn in the crevices of gravel beds or rocky areas as well as near logs. The spawning season is mid-summer lasting from June through mid-August.

Bluegill

From: https://outdooralabama.com/bream/bluegill

The bluegill is a common fish found in ponds, lakes, rivers, and streams through the US as well as into southern Canada and northern Mexico. In Alabama they are found in waterbodies ranging from small private ponds, to large reservoirs. Bluegills are a popular fish among anglers and are stocked as a sport fish in many places in the US. They are commonly six to ten inches long. Bluegills spawn by making nests in gravel beds in shallow to moderately deep areas. The spawning season is driven by water temperature and is typically late May into June but can last for the entire summer. Bluegills are sight feeders that prey on zooplankton and aquatic insects. Large populations of bluegills in some systems can cause over grazing of the primary base of the food web which can lead to either size-stunted bluegill populations or a lack of resources for other species.

Largemouth Bass

From: https://www.outdooralabama.com/black-bass/largemouth-bass

Largemouth bass are one of the most popular game fishes in the US and can be found across the entire county as well as Canada and Mexico. Largemouth bass can be found from 10 to 30 inches, with large individuals weighing in excess of 12 pounds. They have a dark green back that transitions to a light belly and underside. They also have a prominent lateral line along the length of the fish and have a very large mouth capable of swallowing significant size prey. Largemouth bass can be found in almost all aquatic habitats in the US, from small ponds and wetlands, in medium to large lakes, and from small to large streams and rivers. They are also a very prominent species in reservoirs, especially those found in the central and southern portions of the US. Largemouth bass spawn on gravel beds and protect the nests from predators after eggs are deposited. Spawning season is typically from April to May in the southern US but can be later in the northern areas from May into June. Due to the size of their mouths, largemouth bass can feed on a variety of prey including aquatic insects, worms, crayfish, and small to medium sized fish.



Longear Sunfish

From: https://outdooralabama.com/bream/longear-sunfish

The longear sunfish gets its name because the black ear-flap on the gill plate is elongated compared to other sunfish species. They are a smaller sunfish compared to bluegills reaching sizes of four to seven inches. They can be commonly found in small to moderately sized streams, as well as rivers, reservoirs, and oxbow areas. These fish have a small home range congregating in close areas where they form pods to protect nests. The nests are built on sand or gravel shoals near where streams flow into lakes or reservoirs. They spwan in the spring to summer, similar to other sunfish species. They will eat fish eggs, zooplankton, and small aquatic insects. Larger individuals will also feed on terrestrial insects.

Threadfin Shad

From: https://fisheries.tamu.edu/pond-management/species/threadfin-shad/

Threadfin shad are native to the U.S. west of the Appalachian Mountains. They have also been introduced in many lakes and rivers as a forage fish for larger sportfish species. These fish are extremely sensitive to cold water and do better in states with warmer temperatures. Threadfin shad are a warm water species that will die if water temperatures go below 6 degrees Celsius. They can be found in open brackish waters, as well as large ponds, lakes, and reservoirs. They are dependent on light for foraging and will stay high in the water column, feeding exclusively on plankton. They can spawn as early as their first summer of life but often wait till their second summer to mate. Mating occurs between August and July. The lay sticky egg masses that clump to the substrate or floating objects. Few of these fish live to be older than 2 years or grow over 10cm long.

Smallmouth Bass

From: https://www.outdooralabama.com/black-bass/smailmouth-bass

The smallmouth bass grow from 10 to over 20 inches and are smaller in size than the largemouth bass, growing up to six pounds. The lateral line of the smallmouth bass is not as prominent as the largemouth bass and they are a bronze-green in color. Their eyes can also sometimes have a reddish tint compared to other black basses. Smallmouth bass are not as widespread across the US as the largemouth bass though they can be found in lakes, rivers, streams, and reservoirs. They typically prefer systems that have cool, clear, deep water compared to warmer water preferred by largemouth bass. Smallmouth bass typically prefer rocky cobble to boulder size substrates but can also be found around logs, treetops, and even artificial riprap. Spawning periods for smallmouth bass are usually mid-spring from April into May. They feed on small fishes, crayfish, and insects.

Channel Catfish

From: https://outdooralabama.com/catfish/channel-catfish

Channel catfish are a medium to large size fish typically ranging from 15 to 24 inches but large individuals can exceed 30 inches and 40 pounds. They are silver in color with dark green to grey backs and pinkish iridescent tints along the sides and belly. Channel Catfish are found in medium to large streams and rivers, reservoirs, oxbow lakes, and swamps.



They also can be stocked in lakes and ponds. They are a popular gamefish in many areas of the US. They are often found around areas of current and prefer sand, gravel, and silt substrates. Spawning occurs from late spring into the summer and can continue as late as August in some cases. Channel catfish are a top predator in most systems feeding on aquatic insects and crayfish when they are younger but then small to medium fish and mollusks as adults.

White Bass

From: https://www.outdooralabama.com/temperate-bass/white-bass

White bass have lateral stripes on their sides and are often called "stripped bass" by local anglers even though they are a different species than true striped bass found in saltwater systems. White bass are typically 10 to 15 inches in size but individuals can exceed 20 inches. They have dark coloring on their back (grey/green or grey/blue) and then light sides making the stripes stand out. They are found in streams, rivers, and reservoirs in the US. They have been introduced into a number of river and reservoir systems as a game fish. White bass roam the open waters of rivers and reservoirs feeding aggressively aquatic insects and other fishes including shad. They are also found along riprap, near downed trees, or around dams and other river structures. Spawning occurs in the water column and eggs drift down to the bottom of the system to hatch. The spawning period for largemouth bass is normally from April into May.

Inland Silverside

From: https://outdooralabama.com/silverside/inland-silverside

The Inland Silverside is a small fish that is normally two to four inches in length. They have a pale green to translucent yellow color along the back and sides and also have a silver stripe running the length of the body. They are found in the eastern US from the north Atlantic Coast and south down towards the gulf and west across the Mississippi River drainage. They prefer brackish waters of bayous and lagoons, as well as quiet back pay areas of lakes, rivers, and reservoirs. The inland silverside feeds on small crustaceans, aquatic insects, worms, and occasionally algae. They can have multiple spawning events that can occur throughout the spring and summer seasons from April until August. They spawn in open water but the eggs attach themselves to vegetation and other submerged objects.

Mississippi Silverside

From: https://nas.er.usgs.gov/queries/FactSheet.aspx?speciesID=2903

The Mississippi silverside can be found in the Mississippi River drainage and the major tributaries, from the north Atlantic down to the Gulf coast. They are small fish normally 2 to five inches in length. The Mississippi silverside usually occur at the surface in clear, quiet water over sand or gravel. They have been introduced into some systems and can quickly become very abundant in rivers or reservoirs shortly have being introduced. With its ability to reproduce quickly there is the threat of this species consuming significant aquatic resources and ultimately impacting other fish species in a system by out competing them for food and nutrients.



5.5 THREATENED, ENDANGERED, AND OTHER PROTECTED SPECIES

A list of threatened, endangered, and other protected species for Morgan County, Alabama was acquired from the US Fish and Wildlife Service (USFWS) Environmental Conservation Online System (ECOS) and is summarized in Table 5-4.

Table 5-4: List of threatened, endangered, and other protected species for Morgan County, Alabama

Group	Name	Population	Status	Recovery Plan	Recovery Plan Action Status
Amphibians	Black warrior (=Sipsey Fork) Waterdog (Necturus alabamensis)	Wherever found	Endangered	Recovery Outline for the Black Warrior Waterdog (Necturus alabamensis), January 2018	Recovery efforts in progress, but no implementation information yet to display.
Clams	Pink mucket (pearlymussel) (Lampsilis abrupta)	Wherever found	Endangered	Pink Mucket Pearly Mussel	Implementation Progress
Clams	Rough pigtoe (Pieurobema pienum)	Wherever found	Endangered	Rough Pigtoe Pearly Mussel	Implementation Progress
Clams	Spectaclecase (mussel) (Cumberlandia monodonta)	Wherever found	Endangered		
Clams	Dark pigtoe (Pleurobema furvum)	Wherever found	Endangered	Recovery Plan for the Mobile River Basin (15 species)	Implementation Progress
Clams	Sheepnose Mussel (Plethobasus cyphyus)	Wherever found	Endangered	•	
Crustaceans	Alabama cave shrimp (Palaemonias alabamae)	Wherever found	Endangered	Alabama Cave Shrimp Recovery Plan	Implementation Progress
Ferns and Allies	American hart's-tongue fern (Asplenium scolopendrium var. americanum)	Wherever found	Threatened	American Hart's- tongue Fern	Implementation Progress
Flowering Plants	Fleshy-fruit gladecress (Leavenworthia crassa)	Wherever found	Endangered		
Flowering Plants	Price's potato- bean (Apios priceana)		Threatened	Price's Potato Bean	Implementation Progress



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Flowering Plants	Leafy prairie- clover (Dalea foliosa)	Wherever found	Endangered	Leafy Prairie-clover	Implementation Progress
Mammals	Indiana bat (Myotis sodalis)	Wherever found	Endangered	Indiana Bat (Myotis sodalis) Draft Recovery Plan: First Revision	Implementation Progress
Mammals	Gray bat (Myotis grisescens)	Wherever found	Endangered	Gray Bat	Implementation Progress
Mammals	Northern Long- Eared Bat (Myotis septentrionalis)	Wherever found	Threatened		
Reptiles	Flattened musk turtle (Sternotherus depressus)	Black Warrior R. system upstream from Bankhead Dam	Threatened	Flattened Musk Turtle	Implementation Progress
Snails	Anthony's riversnail (Athearnia anthonyi)	Wherever found; Except where listed as Experimental Populations	Endangered	Anthony's Riversnall	Implementation Progress

5.6 CONSULTATION WITH FEDERAL AND STATE AGENCIES

3M has not conducted consultation with state or federal agencies, nor has sought the need for an incidental take permit or authorization related to federally or state protected species under the protection of the USFWS or National Marine Fisheries Service (NMFS).

5.7 CONCLUSIONS

The data presented in the TVA Biological Monitoring report indicates that the fish community within the Wheeler Reservoir is stable and that the BFN Plant is not having an Impact on the fish community within the reservoir (TVA, 2012).

To facilitate comparison between the BFN Plant CWIS and the 3M CWIS, Table 5-5 provides a summary of cooling water flows for both facilities.

Table 5-5: Comparison of Cooling Water Flow Rates

	BFN Plant	3M
Maximum Flow Rate (MGD)	3,468	16.2
Average Flow	1,986¹	4.35 ²

 $^{^1}$ Average flow from 2003-2004, with only Units 2 and 3 operational (TVA, 2006). Note that Unit 1 was returned to service in 2007

The 3M CWIS is considerably smaller than that of the BNF Plant, intaking and discharging a cooling water volume of between 0.2% and 0.5%, comparatively. Therefore, the smaller 3M CWIS is likely also not impacting the fish community within the Wheeler Reservoir.



² Average flow from January 2015 to May 2018

6.1 NARRATIVE DESCRIPTION

The 3M Decatur cooling water system is operational 24 hours per day, seven days per week, 365 days per year. There is minimal consistent seasonal variation in the operation of the cooling water system. River water supplied by the CWIS pumps makes up 100% of the water used in the cooling water system; no process water or gray water is reused for cooling water. No cooling water is reused as process water; the cooling system is once-through and is discharged to the Tennessee River through NPDES Outfall DSN 001, where it is combined with the effluent from the facility's wastewater treatment plant.

6.2 DESIGN AND ENGINEERING CALCULATIONS

Table 6-1 shows the average monthly intake flows from 2015 through May 2018.

Table 6-1: Monthly Average CWIS Flow Rates

Mandh		Average Fl	ow (MGD)¹	
Month	2015	2016	2017	2018
January	2.95	4.73	4.12	4.20
February	3.33	5.42	3.86	4.26
March	3.10	5.02	4.09	4.13
April	3.21	5.24	4.25	3.78
May	3.71	5.44	4.57	3.49
June	3.65	5.25	4.73	-
July	5.03	4.72	4.97	-
August	4.87	4.46	4.41	-
September	4.87	4.49	4.58	-
October	5.19	4.47	4.77	-
November	4.76	3.33	4.44	-
December	4.75	3.50	4.10	-

 $^{^{1}}$ As reported in the facility's monthly DMRs for Outfall DSN 001B. Flows are determined by subtracting flows measured at DSN 001A from DSN 001.

The Wheeler Reservoir has a volume of 1,050,000 acre-feet at the normal summer pool elevation. Based on flow data provided by TVA, the Tennessee River average daily flow through Wheeler Dam from 2008-2018 was 50,392 cfs (32,569 MGD). The average cooling water flow at 3M Decatur from January 2015 through May 2018 was 4.35 MGD (6.73 cfs, or 13.3 acre-feet per day). Based on these volumes and flows, on average 3M withdraws less than 0.0013% per day of the normal summer pool reservoir volume and less than 0.014% of the average daily flow. Table 6-2 shows the proportion of the Tennessee River average daily flow withdrawn, on a monthly basis.

Table 6-2: Average Proportion of Tennessee River Flow Withdrawn by CWIS

		Average P	roportion ¹	
Month	2015	2016	2017	2018
January	0.006%	0.007%	0.012%	0.022%
February	0.010%	0.007%	0.014%	0.005%
March	0.006%	0.012%	0.014%	0.006%
April	0.008%	0.035%	0.012%	0.009%
May	0.030%	0.073%	0.011%	0.013%
June	0.025%	0.055%	0.017%	-
July	0.017%	0.046%	0.019%	•
August	0.022%	0.027%	0.019%	-
September	0.031%	0.039%	0.023%	•
October	0.020%	0.043%	0.020%	-
November	0.014%	0.033%	0.013%	-
December	0.005%	0.016%	0.015%	-

 $^{^1}$ Proportions are determined by dividing monthly average CWIS flow by monthly average flow through Wheeler Dam.

6.3 EXISTING IMPINGEMENT AND ENTRAINMENT TECHNOLOGIES OR OPERATIONAL MEASURES

The 3M CWIS has fine screens with 1/2" spacing to limit entrainment of larger objects and has a maximum design through-screen intake velocity of less than 0.5 feet per second. Additional discussion on the design intake velocity is provided in the next section.

3M performs regular preventative maintenance of the CWIS, helping to keep the various components free of obstruction. This includes annual cleaning of the pump suction sumps, dredging in front of the bar screens as needed, and quarterly cleaning of the fine screens.



7.0 Chosen Method of Compliance with Impingement Mortality Standard

7.1 40 CFR 125.94(C)(2)

This section documents 3M Decatur's CWIS compliance with the impingement standard of the rule. The chosen method is 40 CFR 125.94(c)(2), which is summarized below.

(2) 0.5 Feet Per Second Through-Screen Design Velocity. A facility must operate a cooling water intake structure that has a maximum design through-screen intake velocity of 0.5 feet per second. The owner or operator of the facility must submit information to the Director that demonstrates that the maximum design intake velocity as water passes through the structural components of a screen measured perpendicular to the screen mesh does not exceed 0.5 feet per second. The maximum velocity must be achieved under all conditions, including during minimum ambient source water surface elevations (based on BPJ using hydrological data) and during periods of maximum head loss across the screens or other devices during normal operation of the intake structure.

Because all three pumps are identical, and each pump has a dedicated sump and set of screens, the through-screen velocities (TSV) for a single pump operating at full power were calculated. A free space opening rating of 74% was used for the fine screen mesh per vendor specifications. Table 7-1 shows the calculated TSV's under various conditions. Based on a minimum ambient surface water elevation of 550 ft MSL, the maximum design intake velocity through the CWIS screens is less than 0.5 feet per second.

Table 7-1: Design and actual through-screen velocity (TSV).

Condition Elevation (ft MSL)	Floration Fr	Free Space	Design TSV (ft/sec)	Actual TSV (ft/sec)	
	Opening (sf)	Q = 5.4 MGD (1 Pump)	Q = 4.35 MGD (Avg Day) ¹	Q = 7.00 MGD (Max Day) ^{1,2}	
Low Water	550	41	0.206	0.166	0.133
Normal Water	556	63	0.133	0.107	0.086
High Water	560	79	0.106	0.085	0.068
Flood	561	81	0.103	0.083	0.067

¹ Based on flow data from January 2015 through May 2018.

² TSV calculated assuming two pumps operating with flow split equally between them.

8.0 Entrainment Performance Studies

8.1 AVAILABLE DATA

Through a search of publicly available documents, one relevant entrainment study was found that was conducted by the TVA at their BFN Plant from 2006. The following reports were reviewed to evaluate entrainment mortality on the Wheeler Reservoir:

- TVA, June 2006. Biological Assessment: Effects of Condenser Cooling Water Withdrawal on the Fish Community Near the Browns Ferry Nuclear Plant Intake.
- TVA, July 2012. Biological Monitoring of the Tennessee River Near the Browns Ferry Nuclear Plant Discharge Autumn 2011.
- Enersolv, 2017. Ascend Performance Materials 316(b) Information: Cooling Water Intake Structure Data

There are no additional publicly available entrainment mortality data sets that have collected since the 2006 study by the TVA for BFN. This 2006 study and associated data are relevant to the 3M CWIS because of the relative proximity of the study location in the Wheeler Reservoir and the similarity in the lake cross sections at each site. The reservoir is more than 45 miles long. Both sites (BFN and 3M CWIS) are within the transition zone (middle third) of the lake. The Ascend 2017 report is for a CWIS structure within one mile of the 3M CWIS.

The 2006 entrainment mortality study completed for BFN Plant is more than ten years old, however the above listed 2012 Biological Monitoring Report completed by the TVA for the Wheeler Reservoir has updated fish community data that is more recent and can be combined with the results of the 2006 entrainment mortality study to make the appropriate assessment of potential impacts to the fish community within the Wheeler Reservoir. A summary of the methods, data, and conclusion from the 2006 TVA entrainment mortality study for the BFN Plant is provided below.

8.2 SUMMARY OF BFN ENTRAINMENT STUDY

Methodology

Sampling methods for the entrainment mortality study included the collection of 20 samples from March through July from the water column flowing into the intake structure of the BFN. Eight samples were also collected from three locations within the reservoir to compare the amount of larval fish and fish eggs within the open water basin of the Wheeler Reservoir to the intake area around BFN. Samples were collected from the intake and reservoir locations in 2003 and 2004. All samples used a 0.5-meter fine mesh net with a flow meter. The flow meter was used to determine the volume of water that passed through the net during sampling, which was then used to calculate the density and number of fish eggs and larvae collected. Samples were processed in a laboratory where fish eggs and larvae were identified to the lowest practical taxon, which was typically to the family level (TVA, 2006).

Results

Data from the samples are reported as densities of fish eggs or larvae per unit of water sampled. The average number of fish eggs and larvae collected by TVA in 2003 and 2004 for are provided in Table 8-1.



Table 8-1: Summary of eggs and larval fish collected from 2003 and 2004 (TVA, 2006)

	Intake Samples		Reservoir Samples	
	2003	2004	2003	2004
	1000/m ³	1000/m ³	1000/m ³	1000/m ³
Eggs ¹				
Unspecified	5	T	Т	Т
Clupeidae	15	56	40	4
Catostomidae	T	T	Т	Т
Percidae	Т	Т	Т	Т
Sciaenidae	76	577	376	693
Total	96	633	416	697
Larvae ¹				
Lepisosteidae	T	T	Т	T
Clupeidae	2943	8354	3877	9241
Hiodontidae	T	т	Т	Т
Cyprinidae	8	18	11	14
Catostomidae	43	3	34	3
Ictaluridae	4	6	1	1
Poecilidae	T	Т	Т	Т
Moronidae	56	90	275	72
Centrarchidae	24	157	20	55
Percidae	8	3	6	3
Sciaenidae	104	8	170	19
Atherinopsidae	16	160	6	90
Total	3206	8800	4399	9497

¹ Eggs and larvae were identified and grouped to family level.

For the collected fish eggs, freshwater drum were the most prevalent species comprising 94 percent of all eggs collected over the two-year sampling period. Freshwater drum from the family Sciaenidae were the dominant catch in both the intake and reservoir samples. Fish eggs were not identified to the species level, however freshwater drum are the only species from the Sciaendae family present in the US. Densities of eggs collected were similar in 2003 and 2004. For the juvenile and larval there were a total of 476,434 fish from twelve families collected. Over 95 percent of the total individuals collected were shad from the family Clupeidae. Fish densities collected were higher in 2004 compared to 2003 (TVA, 2006).

Conclusions

The results of the 2006 entrainment mortality study determined that the historical data collected in 2003 and 2004 demonstrate the variability in the occurrence and spatial temporal distribution of fish in Wheeler Reservoir near BFN. This variability translates into significant fluctuation in the entrainment and impingement rates associated with plant operation. Factors contributing to these fluctuations include year-class strength of individual species, life history of selected species, and the physical parameters of Wheeler Reservoir in the vicinity of BFN (TVA, 2006). The 2011 fish community report illustrates some of the potential variability in the fish community noted in the 2006 report. The 2011 fish community surveys did find that gizzard shad continued to be one of the most prevalent fish



collected from 2008 through 2011 matching the prevalence of the species in the 2006 entrainment mortality study. However, freshwater drum eggs were the most prevalent species collected in 2003 and 2004 however this species comprised approximately only one percent of the total catch. Additionally, Mississippi Silverside were not present in 2008 or 2009 but were the most numerous species collected in 2011 (TVA, 2012).

8.3 CONCLUSIONS FOR 3M CWIS

Ultimately, the 2006 entrainment mortality study concluded that the data collected from the Wheeler Reservoir demonstrates that there are no significant impacts on the fish community due to the operation of BFN (TVA, 2006).

Due to the smaller flow of the 3M CWIS (approximately 0.2% to 0.5% of the BFN Plant cooling water flow, as discussed in Section 5.7), the location of the intake in the same section of the Wheeler Reservoir as the BFN intake, and the applicable inherent variation of the fish population within the Wheeler Reservoir, it can also be concluded that the operation of the 3M CWIS is not measurably impacting the fish community within the reservoir.



9.0 Operational Status

3M Decatur utilizes river water for once-through cooling water on vacuum jets, vessel jackets, heat exchangers and various other unit operations associated with various manufacturing processes throughout the facility. River water is not used for power production or steam generation at 3M Decatur.

As summarized in previous sections, the average cooling water flow from January 2015 through May 2018 was 4.35 MGD (6.73 cfs), with a maximum daily flow of 7.00 MGD (10.8 cfs).

3M does not anticipate any appreciable changes to the volume of non-contact cooling water used and does not have plans for changes to the CWIS over the next five years.

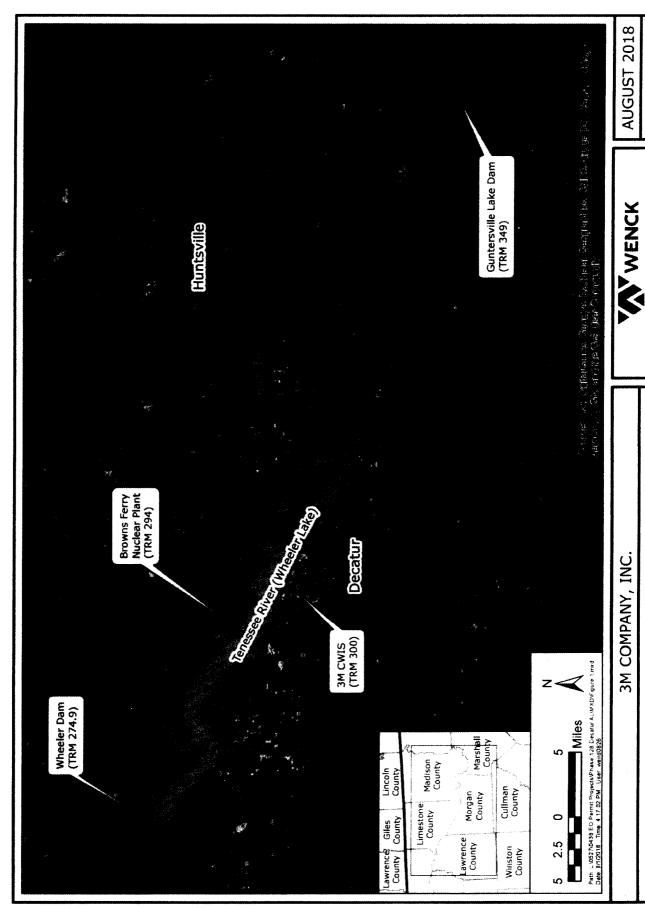


10.0 References

- Enersolv, 2017. Ascend Performance Materials 316(b) Information: Cooling Water Intake Structure Data.
- TVA, June 2006. Biological Assessment: Effects of Condenser Cooling Water Withdrawal of the Fish Community Near the Browns Ferry Nuclear Plant Intake.
- TVA, July 2012. Biological Monitoring of the Tennessee River Near Browns Ferry Nuclear Plant Discharge, Autumn 2011.
- US Fish and Wildlife Services Environmental Conservation https://ecos.fws.gov/ecp/

Wheeler Lake Water Level Website http://www.wheelerlake.info/Level/





AUGUST 2018

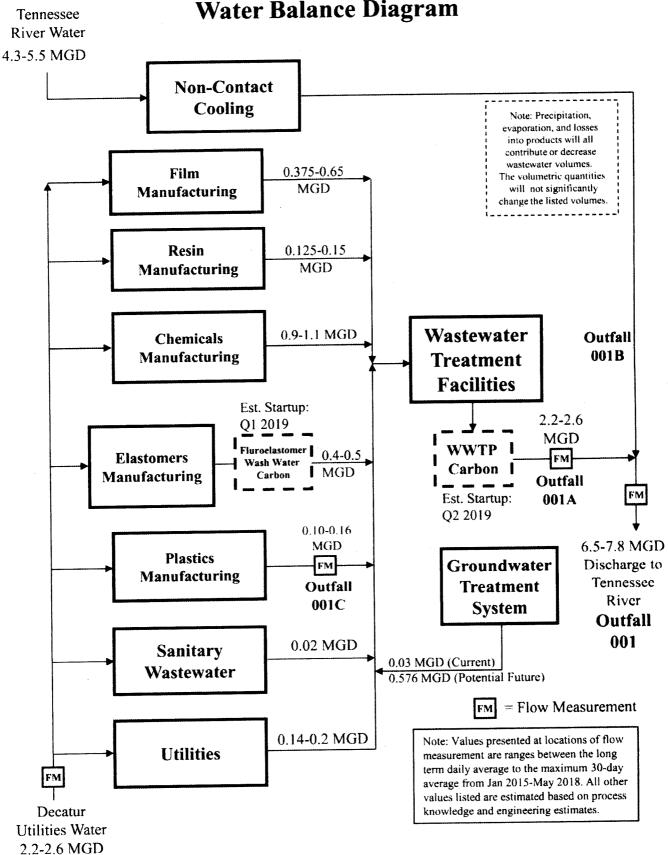
Figure 1

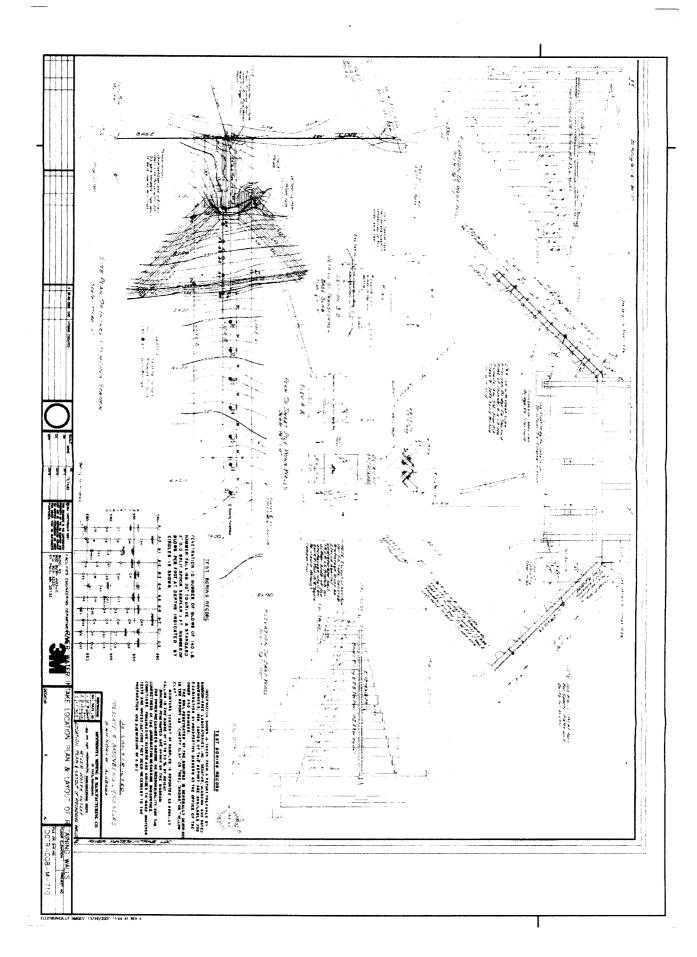
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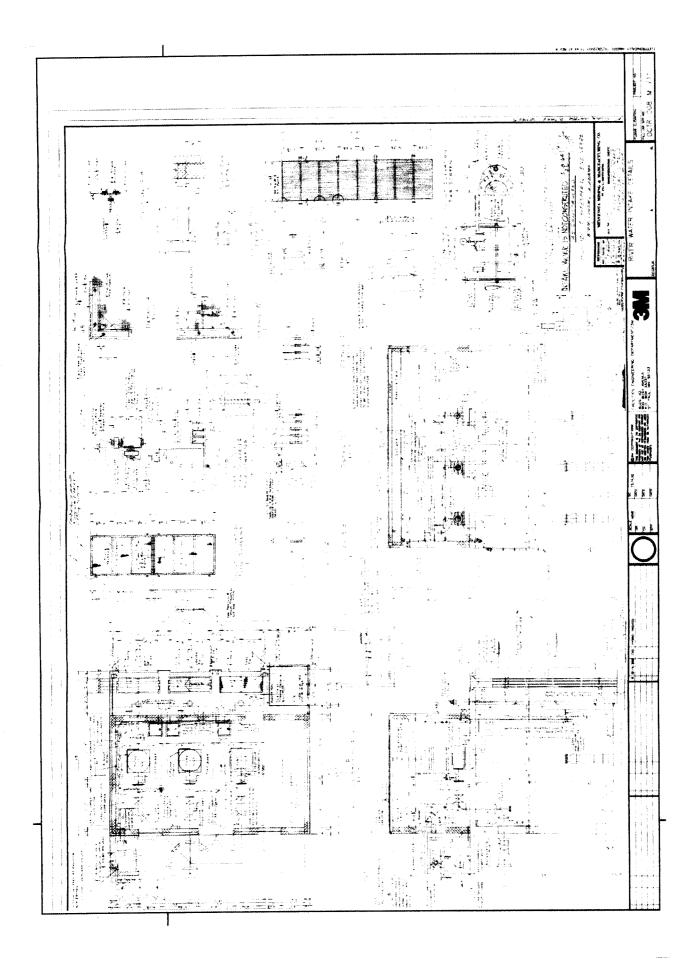
3M COMPANY, INC.

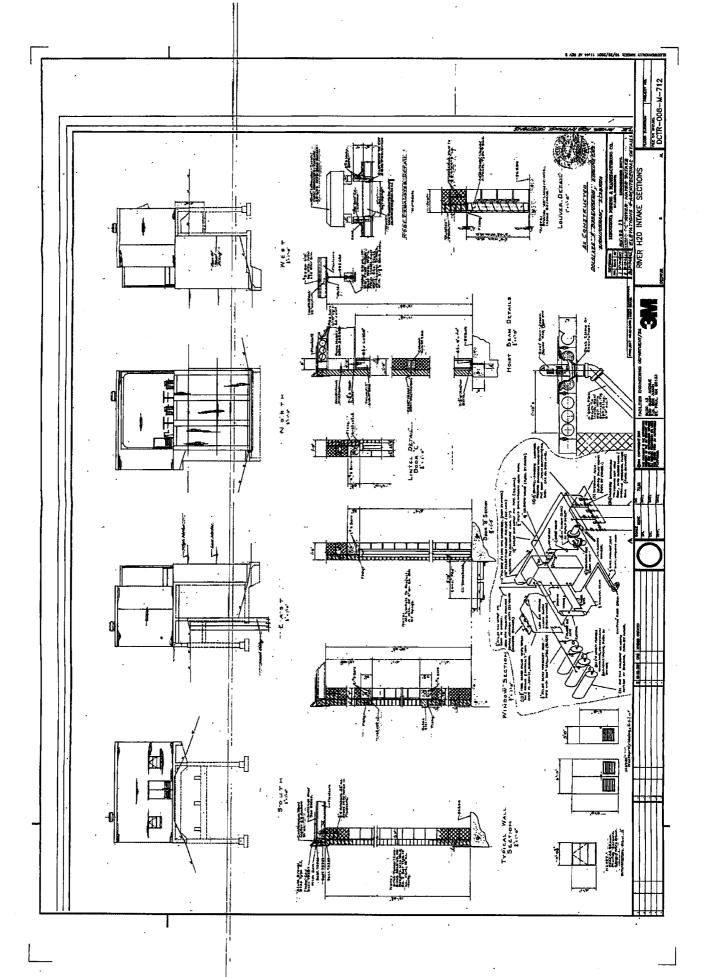
Cooling Water Intake Structure and Source Water Location Map

Figure 2
Water Balance Diagram

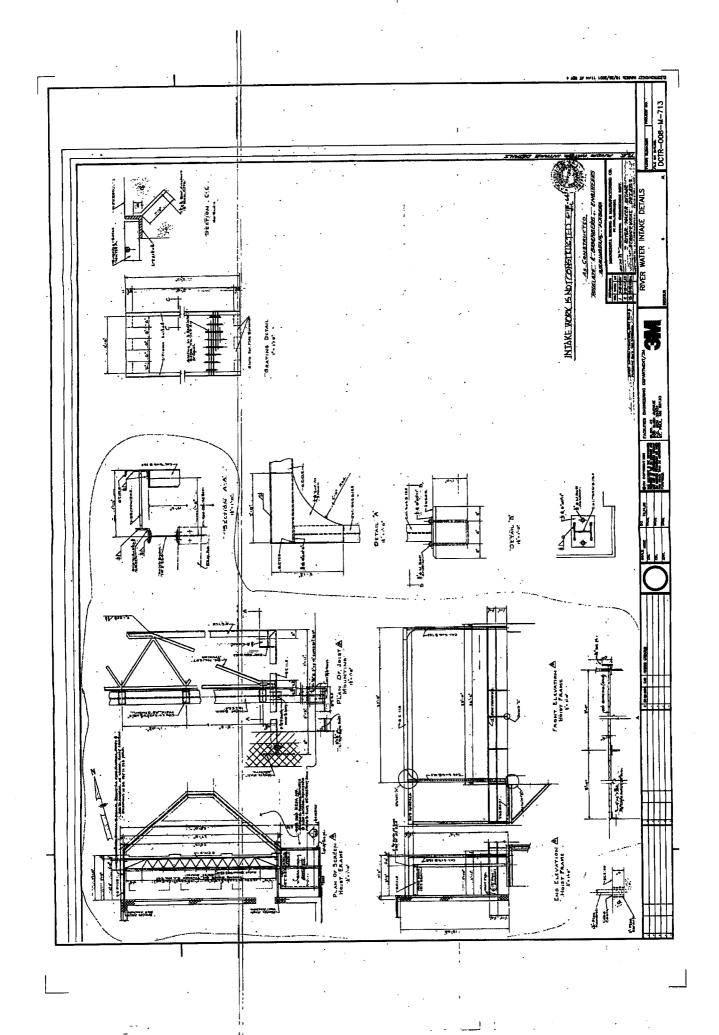


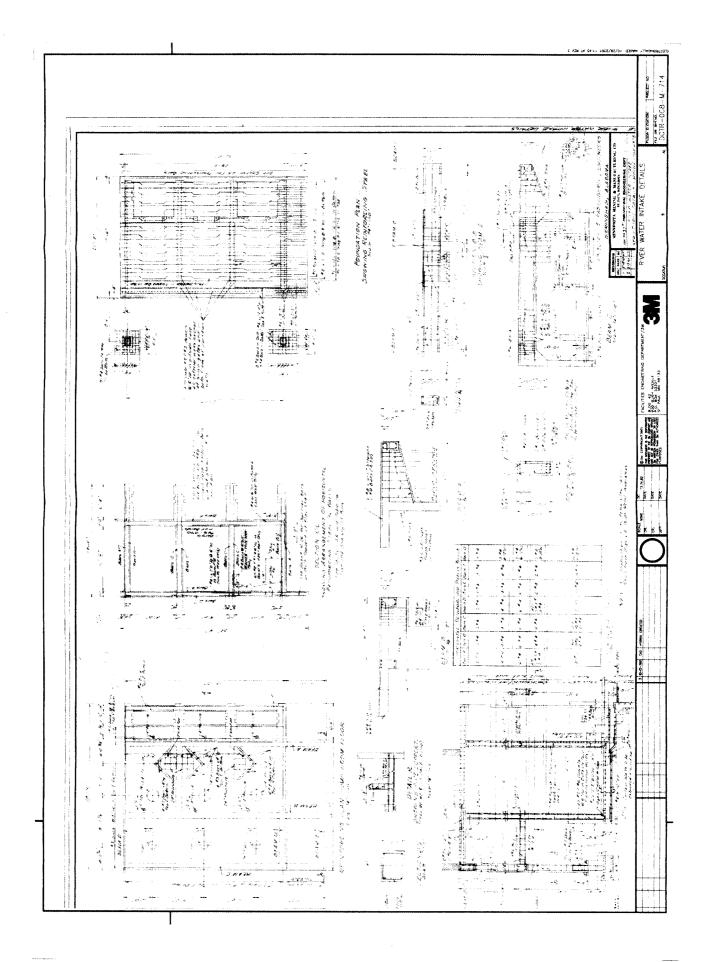


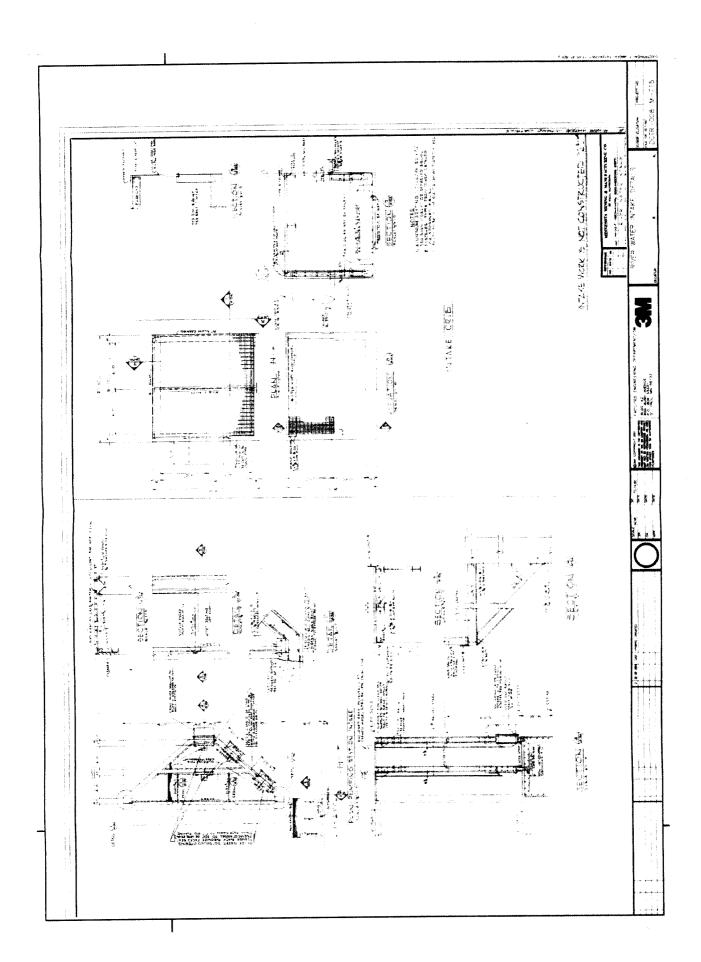


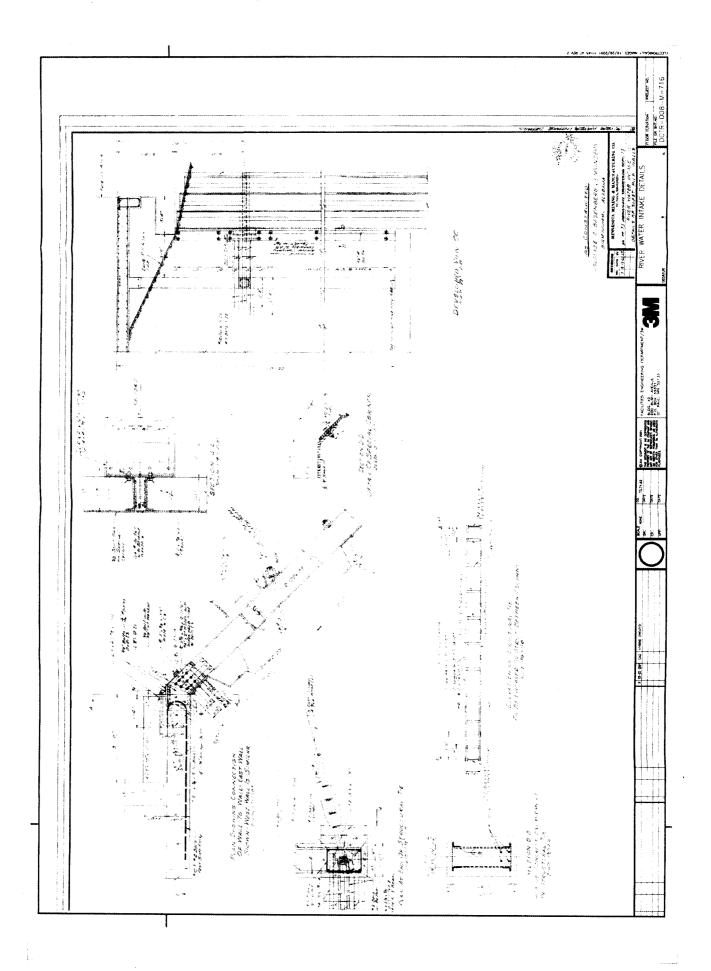


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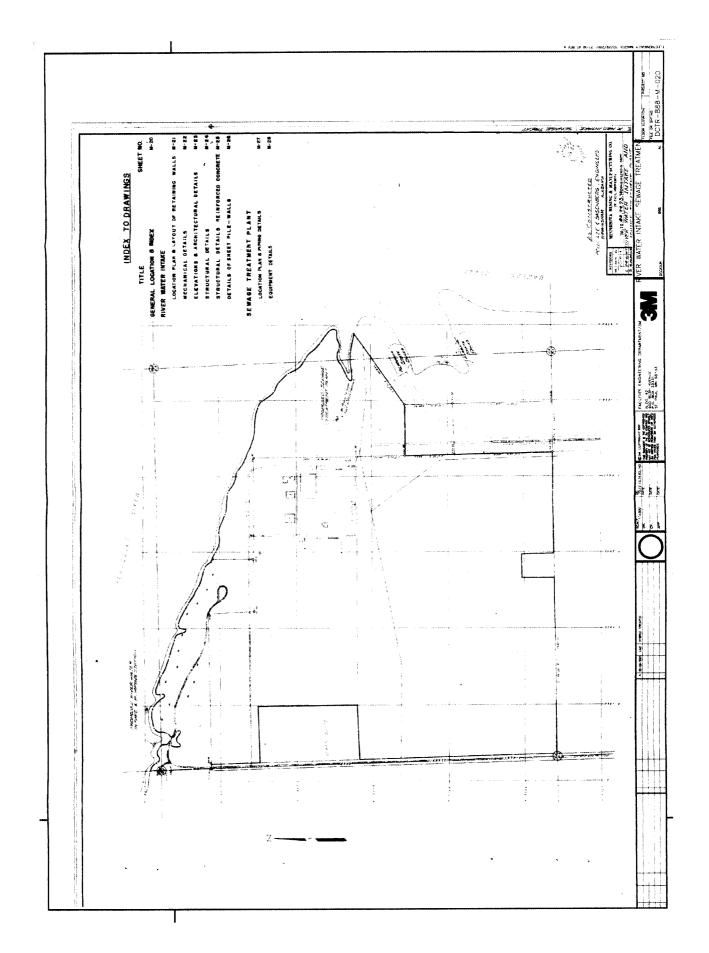








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April 3, 2019

CONTAINS CONFIDENTIAL BUSINESS INFORMATION

ELECTRONIC AND FIRST CLASS MAIL

Ms. Beverly Banister
Director
Air, Pesticides and Toxics Management Division
United States Environmental Protection Agency, Region 4
Mail Code: 9T25
Atlanta, GA 30303-8960
banister.beverly@epa.gov

Re: 3M Company's Voluntary Disclosure of Non-Compliance with Section 5(e) of the Toxic Substances Control Act

Dear Ms. Banister:

On behalf of 3M Company ("3M"), I am writing to voluntarily disclose non-compliance with Section 5(e) of the Toxic Substances Control Act ("TSCA"), 15 U.S.C. § 2604(e), at 3M's Decatur, Alabama plant. The Decatur plant manufactures, *inter alia*, intermediate chemicals, perfluorobutanesulfonamide ("FBSA") and fluorinated sulfonamide alcohol ("FBSEE").

3M is authorized to manufacture, process and use FBSA and FBSEE at its Decatur plant pursuant to the terms of a November 2, 2009 United States Environmental Protection Agency ("EPA") Consent Order ("Consent Order"), in which EPA identifies FBSA as P09-0477 [1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-] and FBSEE as P09-0485 [1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-N,N-bis(2-hydroxyethyl)-]. That Consent Order contains a "Release to Water" provision, which states as follows:

"The Company is prohibited from any predicted or purposeful release of the PMN substances P09-0477 and P09-0485, or any waste stream from manufacturing, process and use containing these substances into waters of the United States."

Consent Order at p. 7. Through self-investigation, 3M has discovered that the Decatur plant has released FBSA and may have released FBSEE from its manufacturing operations to the Tennessee River in non-compliance with the Consent Order's release to water provision.

Hogan Lovells US LLP is a limited liability partnership registered in the District of Columbia. "Hogan Lovells" is an international legal practice that includes Hogan Lovells US LLP and Hogan Lovells International LLP, with offices in: Alicante Amsterdam Baltimore Dusa Baltimore Developed Baltimore Developed Baltimore Developed Baltimore Baltimore Baltimore Baltimore Baltimore Baltimore Developed Baltimore Baltimore Developed Baltimore Baltimore Developed Baltimore Baltimore Baltimore Developed Baltimore Developed Baltimore Developed Baltimore Baltimore Baltimore Developed Baltimore Developed Baltimore Developed Baltimore Developed Baltimore Baltimore Baltimore Developed Baltimore Baltim

Due to these concerns, 3M has ceased both its FBSA and FBSEE manufacturing operations at its Decatur plant as well as any associated waste stream releases from those operations. 3M is working diligently to fully investigate the source(s) of the release(s) and to develop corrective actions to ensure such releases do not recur. As we work to fully investigate this situation, we would appreciate the opportunity in the near future to meet with you and your staff to discuss and our findings and our efforts to ensure that 3M remains in permanent, consistent compliance with the Consent Order.

Sincerely,

Adam M. Kushner, Esq.

Adm of Kil

Partner

Hogan Lovells US LLP

555 Thirteenth St., N.W. Washington, DC 20004

Telephone: 202-637-5724

adam.kushner@hoganlovells.com

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Letter to Leif Palmer, Esq. April 26, 2019

Hogan Lovells

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April 26, 2019

ELECTRONIC AND FIRST CLASS MAIL

Mr. Leif Palmer, Esq.
Regional Counsel
United States Environmental Protection Agency
Region 4
Atlanta, GA 30303-8960
Palmer.Leif@epa.gov

Re: 3M Company's Confidential Business Information Related to April 3, 2019 Letter

Dear Mr. Palmer:

I am writing, on behalf of 3M Company ("3M"), to substantiate 3M's claim that the contents of its April 3, 2019 letter ("April 3 letter") contains confidential business information the disclosure of which will cause substantial harm to 3M. Therefore, 3M respectfully requests that this information be treated as confidential business information under 40 C.F.R. Part 2, Subpart B ("Confidentiality of Business Information").

The contents of 3M's April 3 letter, the Consent Order (titled "Consent Order and Determinations Supporting Consent Order") referenced therein, as well as the June 30, 2009 Pre-Manufacturing Notices ("PMN") for TS-LD4249 and TS-PS3208 relating to the Consent Order, include 3M "Confidential Business Information" which is not publicly known or of general knowledge in the trade or business, and thus have been marked as "Confidential Business Information" and should be treated as such.

The information labeled as "Confidential Business Information" in the April 3 letter relates to the PMN substances and methods of processing the PMN substances to form derivative products, which are all unique to 3M and maintained in secrecy.

In general, 3M produces and uses the PMN substance in the manufacture of 3M products in an industry where 3M has many competitors. Those competitors might try to determine how the 3M products are made, including what precursors, ingredients or processes are used. This activity by 3M's competitors would deprive 3M of the trade secret competitive advantage it has in marketing its products, and result in the loss of 3M sales and/or profitability in its products and investments, causing substantial harmful effects to 3M's competitive position.

Letter to Leif Palmer, Esq. April 26, 2019

The "Confidential Business Information" also relates to processes or process details that are proprietary to 3M, including proprietary production equipment, manufacturing processes, and process conditions, as well as the chemical identity of raw materials and by-products, the magnitude of 3M's business and 3M's manufacturing capabilities.

The "Confidential Business Information" derives independent economic value from not being generally known or ascertainable by 3M's competitors in the industry and other entities that could obtain economic value from the public disclosure of such information.

3M "Confidential Business Information" is customarily held in confidence and is not available for public viewing. 3M takes significant measures to protect the confidentiality of its trade secrets, including: (1) disclosure only to those 3M employees who have a need to know, and to other persons, such as vendors, who are under contractual obligation to hold the information in confidence; (2) controlled access to the 3M's facilities where the information is located and used, including but not limited to posted security guards at the entrance to 3M's facilities, the display of employee passes, and the escort of visitors to 3M's facilities; and (3) all available legal measures to protect the confidential information concerning the processes utilized at its facilities from disclosure to third parties.

These steps are regularly taken in filings made with governmental and regulatory agencies (including the United States Environmental Protection Agency ("EPA")) and in dealings with 3M's customers and suppliers. 3M intends to continue to take these measures to protect the information in its April 3 letter as "Confidential Business Information."

3M has invested substantial research and development in creating and developing the proprietary equipment, processes, and chemical compositions embodied in its trade secrets and "Confidential Business Information." Public disclosure of such "Confidential Business Information" could be used by 3M competitors to improperly gain an economic competitive advantage, substantially and irreparably harming 3M.

For all of these reasons, 3M respectfully requests that pursuant to 40 C.F.R. Part 2, Subpart B, EPA treat as "Confidential Business Information" 3M's April 3 letter, the Consent Order referenced therein, and the PMNs for TS-LD4249 and TS-PS3208.

Please do not hesitate to contact me should you have any questions regarding the above.

Sincerely.

Adam M. Kushner

Hogan Lovells US LLP

555 Thirteenth Street NW

Washington, DC 20004

Telephone: 202-637-5624

Letter to Leif Palmer, Esq. April 26, 2019

Fax: 202-637-5910

Email: adam.kushner@hoganlovells.co

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C.: 20460

April 26, 2019

Via U.S. and Electronic Mail

OFFICE OF ENFORCEMENT AND COMPLIANCE ASSURANCE

Adam M. Kushner, Esq. Hogan Lovells US LLP 555 Thirteenth St., N.W. Washington, DC 20004 adam.kushner@hoganlovells.com

RE: 3M Disclosure of Non-Compliance with Toxic Substances Control Act (TSCA) at 3M's Decatur, Alabama Plant

Dear Mr. Kushner:

This letter responds to your letter of April 3, 2019 to Ms. Beverly Banister, Director of the Air. Pesticides and Toxic Management Division in Region 4, regarding the disclosure of non-compliance with TSCA. In the letter you indicated that 3M is working to investigate the situation and is seeking an opportunity to discuss your findings with EPA. Please note that, as of December 9, 2015, EPA launched an electronic portal for the submission and automatic processing of such self-disclosures. The portal is called "eDisclosure" and can be accessed at http://www.epa.gov/cdx. It replaces EPA's process of accepting and responding to hard-copy disclosures, allowing for faster and more efficient processing of disclosures under EPA's Audit Policy (formally titled "Incentives for Self- Policing: Discovery, Disclosure, Correction and Prevention of Violations," 65 FR 19.618, April 11, 2000).

If a company submits a disclosure into eDisclosure within 21 days of discovery, and subsequently completes the compliance report certifying it meets the Audit Policy conditions, the system automatically generates an Acknowledgement Letter that is sent to the company. 3M's disclosure will not be eligible for an Acknowledgement Letter via the eDisclosure system because the electronic submittal is occuring after the 21-day discovery deadline. In this circumstance, 3M has the option to disclose to eDisclosure, receive an Ineligibility Letter (21-day prompt disclosure has passed) and attach information to explain discovery, disclosure and correction of noncompliance. EPA requests that 3M use the CDX eDisclosure system to provide additional information concerning disclosure of potential noncompliance, so that any EPA personnel reviewing this disclosure will have a centralized location of information to fully understand the circumstances surrounding the disclosure. EPA will take into account all facts and circumstances surrounding such violations, including the fact that 3M submitted a disclosure, if and when EPA considers taking enforcement action for environmental violations.

We understand that 3M has requested a May 16, 2019 meeting to discuss this matter. In order to ensure EPA has the necessary information on the Audit Policy aspects of this meeting, we

request you input information into eDisclosure by May 8, 2019, and send an email to Mark Garvey, an attorney on my staff, at Garvey.Mark@epa.gov to let him know you have completed the eDisclosure process. EPA also requests that 3M attach to its eDisclosure, and provide to Mark Garvey, a confidential business information (CBI)-redacted version of the April 3, 2019 disclosure letter. The redacted letter is required under the CBI regulations and will be treated as an enforcement sensitive communication. In addition, EPA requests that all CBI claims be substantiated. When considering whether certain information is public, please keep in mind that the National Pollution Discharge Elimination System permit for 3M at this facility may be a public source of information.

EPA Headquarters and EPA Region 4 are coordinating closely on this matter. Regarding any information 3M believes would inform EPA's TSCA compliance investigation, please submit it to the following individuals. For issues regarding the eDisclosure, please contact Mark Garvey at (202) 564-4168 or by email as indicated above. For other issues concerning this matter, please contact Susan Hansen at (404) 562-9700, a Supervisory Attorney Advisor in EPA Region 4. Please do not provide CBI through the email or in the CDX system.

Sincerely,

James Y. Miles, Acting Associate Director Waste and Chemical Enforcement Division

Office of Civil Enforcement

Office of Enforcement and Compliance Assurance

cc: Mark Garvey Susan Hansen

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON D.C., 20460

OFFICE OF CHEMICAL SAETY AND POLLUTION PREVENTION

May 5, 2019

via email

Adam M. Kushner, Esquire Hogan Lovells US LLP 555 Thirteenth Street NW Washington, DC 20004

Dear Mr. Kushner:

The U.S. Environmental Protection Agency ("EPA" or "Agency") is seeking to determine the entitlement to confidentiality of the information submitted on behalf of 3M to EPA in a letter dated April 3, 2019, and the substantiation of the confidential business information (CBI) claims in a subsequent letter dated April 26, 2019. The purpose of this letter is to notify you that EPA may make a confidentiality determination concerning the information you have claimed as CBI. If you feel that the information is entitled to confidential treatment, you must make the showings below with specific reference to those portions of the information you consider confidential.

We appreciated the opportunity to speak with you regarding this matter on May 1, 2019. During that conversation, you clarified that you are asserting only the specific chemical identities referenced in the letters as CBI. You also clarified that all other information in the letters is considered non-confidential.

For each item that you continue to claim as CBI, please answer the following questions, providing as much detail as possible. Please be specific when identifying and substantiating the information subject to your claim. Any information not specifically identified as subject to a confidentiality claim and substantiated as such in your response to this letter may be disclosed without further notice to you.

Please include with your responses an updated, redacted version of the April 3, 2019 letter with all CBI (chemical identity references in this instance) removed. EPA will refer to the two substances identified in the April 3, 2019 letter by the non-CBI, "generic" names identified in the two TSCA section 5 cases, which are also the non-confidential names listed on the public version of the TSCA Inventory.

Your comments in response to these questions will be used by the EPA to determine whether the information has been shown to be entitled to confidential treatment:

- For what period of time do you request that the information be maintained as confidential, e.g., until a certain date, until the occurrence of a specified event, or permanently? If the occurrence of a specific event will eliminate the need for confidentiality, please specify that event.
- 2. Information submitted to the EPA becomes stale over time. Why should the information you claim as confidential be protected for the time period specified in your answer to question #1?
- 3. What measures have you taken to protect the information claimed as confidential? Have you disclosed the information to anyone other than a governmental body or someone who is bound by an agreement not to disclose the information further? If so, why should the information be considered confidential?
- 4. Is the information contained in any publicly available material such as the Internet, publicly available databases, promotional publications, annual reports, or articles? If so, specify which.
- 5. Is there any means by which a member of the public could obtain access to the information? Is the information of a kind that you would customarily not release to the public?
- 6. Has any governmental body made a determination as to the confidentiality of the information? If so, please attach a copy of the determination.
- 7. For each item or category of information claimed as confidential, *explain with specificity* why release of the information is likely to cause substantial harm to your competitive position. Explain the specific nature of those harmful effects, why they should be viewed as substantial, and the causal relationship between disclosure and such harmful effects. How could your competitors make use of this information to your detriment?
- 8. Do you assert that the information is submitted on a voluntary or a mandatory basis? Please explain the reason for your assertion. If you assert that the information is voluntarily submitted information, please explain whether the information is the kind that would customarily not be released to the public.
- 9. Whether you assert the information as voluntary or involuntary, please address why disclosure of the information would tend to lessen the availability to the EPA of similar information in the future.
- 10. If you believe any information to be (a) trade secret(s), please so state and explain the reason for your belief. Please attach copies of those pages containing such information with brackets around the text that you claim to be (a) trade secret(s).

- 11. Explain any other issue you deem relevant (including, if pertinent, reasons why you believe that the information you claim to be CBI is not emission data or effluent data).
- 12. Does this particular chemical substance leave the site of manufacture (including import) in any form, e.g., as product, effluent, emission? If so, what measures have been taken to guard against the discovery of its identity.
- 13. If the chemical substance leaves the site in a product that is available to the public or your competitors, can the chemical substance be identified by analysis of the product?
- 14. Is this chemical substance publicly known to be in U.S. commerce by a specific chemical identity or name that is consistent with its listing on the confidential portion of the TSCA Inventory? If yes, explain why the chemical identity should still be afforded confidential status.

Please note that you bear the burden of substantiating your confidentiality and trade secret claim(s). Generalized or conclusory statements will be given little or no weight in EPA's determination on the confidentiality of the information you claim to be CBI.

Your comments must be postmarked or hand delivered to this office, or emailed to sherlock.scott a epa..gov, by the 15th working day after your receipt of this letter. You may seek an extension of time to submit your comments to this office, but the request must be made before the end of the 15-day period. Except in extraordinary circumstances, no extension will be approved. Failure to submit your comments within that time will be regarded as a waiver of your confidentiality claim or claims, and the EPA may release the information.

If you wish to claim any information that you provide in your response to this letter to itself be confidential, you must mark the response "CONFIDENTIAL" or with a similar designation and must bracket all text in the response that you so claim. Information so designated will be disclosed by the EPA only to the extent allowed by, and by means of the procedures set forth in, 40 C.F.R. Part 2, Subpart B. If you fail to claim the information provided in your response as confidential, it may be made available to the public without further notice to you.

Please include in your response the certification at the bottom of the communication signed by an authorized official.

Should you have any questions concerning this matter, please call me at 202-564-8257.

Sincerely,

Scott M. Sherlock, Attorney Advisor Environmental Assistance Division

Office of Pollution Prevention and Toxics

Enclosure

Certification

I hereby certify to the best of my knowledge and belief that all information entered on this form is complete and accurate.

I further certify that, pursuant to 15 U.S.C. § 2613(c), for all claims for confidentiality made with this submission, all information submitted to substantiate such claims is true and correct, and that it is true and correct that

- (i) My company has taken reasonable measures to protect the confidentiality of the information:
- (ii) I have determined that the information is not required to be disclosed or otherwise made available to the public under any other Federal law;
- (iii) I have a reasonable basis to conclude that disclosure of the information is likely to cause substantial harm to the competitive position of my company; and
- (iv) I have a reasonable basis to believe that the information is not readily discoverable through reverse engineering.

Any knowing and willful misrepresentation is subject to criminal penalty pursuant to 18 U.S.C. § 1001.

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Hogan Lovells

May 23, 2019

ELECTRONIC AND FIRST-CLASS MAIL

Scott M. Sherlock
Attorney-Advisor
Environmental Assistance Division
Office of Pollution Prevention and Toxics
United States Environmental Protection Agency
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460
sherlock.scott@epa.gov

Re: 3M Company's Confidential Business Information Substantiation Letter

Hogan Lovells US LLP Columbia Square

F +1 202 637 5910

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555 Thirteenth Street, NW Washington, DC 20004 T +1 202 637 5600

Dear Mr. Sherlock:

I am writing, on behalf of 3M Company ("3M"), in response to your letter dated May 5, 2019, requesting that 3M respond to questions designed to assist the United States Environmental Protection Agency ("EPA" or "Agency") in determining that certain information contained in 3M's April 3, 2019 letter to Beverly Banister, Director, Air, Pesticides and Toxics Management Division, is "confidential business information" ("CBI") within the meaning of 40 C.F.R. § 2.204 et seq.

In that letter, 3M voluntarily disclosed information related to a release to water provision contained in a TSCA 5(e) Consent Order and Determinations Supporting Consent Order ("Consent Order"), dated November 5, 2009. Under the terms of the Consent Order, 3M is authorized to manufacture, process and use perfluorobutanesulfonamide ("FBSA" or "P-09-0477") and fluorinated sulfonamide alcohol ("FBSEE" or "P-09-0481) at its Decatur plant.

After careful consideration, 3M is no longer asserting that the non-generic chemical names of the fluorinated chemicals identified in the April 3 letter are CBI. In addition, 3M is not asserting that the presence of these chemicals at 3M's Decatur, Alabama facility is CBI. Accordingly, 3M has not provided responses to the CBI substantiation questions for the April 3 letter as requested by the EPA in their May 5, 2019 letter. However, 3M continues to maintain a CBI claim over the Consent Order as well as the two June 30, 2009 Pre-Manufacturing Notices ("PMN") (TS-PS3208 for P-09-0477 and TS-LD4249 for P-09-0485) upon which the Consent Order is based, both of which are expressly referenced in 3M's April 3 letter.

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Scott M. Sherlock, Attorney Advisor
Environmental Assistance Division
Office of Pollution Prevention and Toxics

The EPA has previously determined that both the Consent Order and the two PMNs contain CBI, and 3M continues to maintain a CBI claim with respect to the content of all three documents. 3M's reference to the Consent Order and both PMNs in 3M's April 3 letter does not constitute a waiver or disclosure of any such CBI. Courts have held specifically that the idea that "the government waives protection of a document's contents by acknowledging its existence would turn FOIA upon its head; for example, every document listed in a *Vaughn* index is "acknowledged to exist" but does not become disclosable if a FOIA exemption applies." <u>Venkataram v. Office of Info. Policy</u>, No. CIV. 09-6520, 2013 WL 5674346, at *2 (D.N.J. Oct. 16, 2013), aff'd, 590 F. App'x 138 (3d Cir. 2014).

As discussed in 3M's letter dated April 26, 2019, 3M has invested substantial research and development in creating the proprietary equipment, processes, and chemical compositions embodied in its CBI. Public disclosure of 3M CBI could enable 3M competitors to improperly gain an economic competitive advantage, substantially and irreparably harming 3M.

In a March 20, 2015 letter, 3M requested that EPA transfer P-09-0477 from the confidential section to the public section of the TSCA Inventory (See March 20, 2015 letter from Jonathan Gerber to United States EPA Office of Pollution Prevention and Toxics, attached hereto)¹. 3M has not made a similar request with respect to P-09-0485. Nonetheless, 3M asserted in its March 20 letter, and continues to assert now, that all other claims of confidentiality in the PMN for P-09-0477, including but not limited to, details about the manufacturing process, byproducts, molecular weight, safety data sheets, batch information, production volume projections, end user process diagrams, etc., remain in effect. The logic of 3M's claim of confidentiality as outlined in its March 20 letter applies with equal force to the PMN for P-09-0485, as its manufacture, process and use is inextricably linked to the manufacture, process and use of P-09-0477. For the same reasons, the previously determined 3M confidential business information contained in the Consent Order must still be maintained as CBI.

Please contact the undersigned if you have any questions or need additional information.

Sincerely.

Adam M. Kushner, Esq. Hogan Lovells US LLP 555 Thirteenth Street NW Washington, DC 20004

Adm of Kil

Telephone: 202-637-5624

Email: adam.kushner@hoganlovells.com

Enclosure(s)

¹ The EPA has yet to effect that change.

May 23, 2019
Scott M. Sherlock, Attorney Advisor
Environmental Assistance Division
Office of Pollution Prevention and Toxics

Certification

I hereby certify to the best of my knowledge and belief that all information entered on this form is complete and accurate.

I further certify that, pursuant to 15 U.S.C. § 2613(c), for all claims for confidentiality made with this submission, all information submitted to substantiate such claims is true and correct, and that it is true and correct that

- (i) My company has taken reasonable measures to protect the confidentiality of the information;
- (ii) I have determined that the information is not required to be disclosed or otherwise made available to the public under any other Federal law;
- (iii) I have a reasonable basis to conclude that disclosure of the information is likely to cause substantial harm to the competitive position of my company; and
- (iv) I have a reasonable basis to believe that the information is not readily discoverable through reverse engineering.

Any knowing and willful misrepresentation is subject to criminal penalty pursuant to 18 U.S.C. § 1001.

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Acute Toxicity Evaluation of 3M's Decatur Plant Final Effluent

Test Dates May 22 – May 24, 2019

NPDES Permit #AL0000205

Submitted to

3M Environment, Health, Safety and Medical EHS Laboratory 3M Center Bldg 0260-05-N-17 Maplewood, MN 55144-1000

3M Project # GEN19-02-02

Pace Project# 12125136

Prepared by

Pace Analytical Services, LLC 4730 Oneota Street Duluth, Minnesota 55807-2719

Submitted June 2019

TABLE OF CONTENTS

REPORT AUT	THORIZATION4
EXECUTIVE	SUMMARY5
INTRODUCT	ION6
TOXICITY TI	EST METHOD OVERVIEW6
Sample Test O	e Collection, Shipping and Receipt
RESULTS	10
Toxici	ty Test Results
CONCLUSIO	NS11
TABLE 1.	Summary of Test Conditions for <i>Ceriodaphnia dubia</i> During 3M Decatur Plant Whole Effluent Test
TABLE 2.	Summary of Test Conditions for <i>Pimephales promelas</i> (Fathead Minnow) During 3M Decatur Plant Whole Effluent Test
TABLE 3.	Values for Arrival Chemistry Measurements Performed with 3M Decatur Plant Final Effluent DSN001 and Tennessee River Water
TABLE 4.	Values for Chemistry Measurements Obtained During Acute Toxicity Tests with 3M Decatur Plant Final Effluent DSN001 and Tennessee River Water
TABLE 5.	Cumulative Percentage Survival for Ceriodaphnia dubia and Pimephales promelas after 48-Hour Exposure to 3M Decatur Plant Final Effluent DSN001 and Tennessee River Water
TABLE 6.	Precision of Ceriodaphnia dubia Acute Reference Toxicant Testing
TABLE 7.	Precision of Pimephales promelas Acute Reference Toxicant Testing

TABLE OF CONTENTS CONT.

FIGURE 1. Precision of Ceriodaphnia dubia Acute Reference Toxicant Testing

FIGURE 2. Precision of Pimephales promelas Acute Reference Toxicant Testing

APPENDIX A -ADEM Toxicity Test Report Summary

APPENDIX B – Data Packages

APPENDIX C – Lab Report and Chain of Custody

APPENDIX D - Reference Toxicity Testing Data Packs

Report Authorization

Author:	Dan Toms	
Γitle:	Bioassay Supervisor	
Date:	June 19, 2019	
Signature:	X Jan Toms	

EXECUTIVE SUMMARY

- The 3M Decatur, Alabama facility final effluent collected from Outfall DSN001 on May 20-21, 2019 supported acceptable *Pimephales promelas* (fathead minnow) and *Ceriodaphnia dubia* survival during the acute whole effluent toxicity (WET) test performed May 22-24, 2019. The DSN001 effluent was not acutely toxic and was observed to support test organism survival of 100% during the forty-eight-hour exposures for ambient and pH-controlled tests.
- The Ceriodaphnia dubia reference toxicant test performed concurrently with the effluent study met all minimum performance requirements and resulted in an endpoint value consistent with previous tests.
- The *Pimephales promelas* reference toxicant test performed concurrently with the effluent study met all minimum performance testing requirements and resulted in an endpoint value consistent with previous tests.
- The Ceriodaphnia dubia exposed to the controls, Decatur receiving water, and laboratory water (Treated Tap Water, TT), demonstrated 100 % survival for the ambient pH test and for the pH-controlled tests.
- The *Pimephales promelas* exposed to the controls, Decatur receiving water, and laboratory water (Treated Tap Water, TT), demonstrated 98-100 % survival for the ambient pH test and for the pH-controlled tests.

INTRODUCTION

At the request of 3M Environment, Health, Safety and Medical Operations, Pace Analytical Services, LLC, performed tests to assess the toxicity of final effluent from 3M's Decatur, Alabama Plant (Permit # AL0000205). The testing was performed to fulfill discharge permit quarterly monitoring requirements.

Static 48-hour acute toxicity tests exposing the microcrustacean cladoceran *Ceriodaphnia dubia* and fathead minnow (*Pimephales promelas*) to the Decatur effluent DSN001 and the receiving water (Tennessee River) were conducted. Parallel sets of tests were performed near the reported collection pH of the DSN001 effluent. The pH-controlled tests were conducted by adjusting the pH of the test solutions with dilute HCl. The adjusted test solutions were then placed into a five-gallon rectangular glass box with glass lid. A 2.5% carbon dioxide (CO₂)/ air gas mixture was then injected into the glass box to maintain the test pH near the collection pH.

TOXICITY TEST METHOD OVERVIEW

The toxicity tests were performed following methods described in the United States Environmental Protection Agency (USEPA) test manual, "Methods for Determining the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," Fifth Edition, 2002.

Page 6

The pH-controlled tests were conducted following methods described in the USEPA guidance manual, "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures," Second Edition, 1991.

Sample Collection, Shipping and Receipt

A composite sample of final effluent from Outfall DSN001 and a Tennessee River water grab sample were collected by ENERSOLV Corporation, (ESV), the day before the initiation of the test battery. The effluent sample from Outfall DSN001 was collected on May 20 (0700 H) – May 21 (0700 H), 2019 and the Tennessee River sample was collected on May 21 (1030 H), 2019. The cooler containing the DSN001 effluent sample and the Tennessee River Water sample was sealed with industrial tape prior to shipment and then shipped on ice by ESV to Pace Analytical via express courier (Federal Express air bill #7752 7579 3431). The ESV sampling personnel who collected the samples did not place a custody seal on the cooler prior to shipping to the laboratory.

The samples were received at Pace Analytical on May 22, 2019 at 1035 hours. Upon opening the shipping container, the DSN001 effluent and Tennessee River Water samples were inspected, and the Chain of Custody form was completed. Shipping temperature, pH, conductivity, total hardness, alkalinity, total residual chlorine, ammonia as N, total suspended solids, and total dissolved solids were measured and recorded for each sample.

The temperature values for the DSN001 effluent and Tennessee River Water during collection were documented on the chain of custody as 30.6 °C and 24.7 °C respectively. The temperatures at the time of receipt at the laboratory were 1.7 °C and 1.9 °C for the DSN001 effluent and Tennessee River Water samples, respectively. There was no evidence of ice formation in the samples. The total flow for the effluent during the collection was reported as 4.1 million gallons per day (MGD). The facility has a reported design flow of 13.5 MGD.

Sample Preparation

Before use, the samples were warmed to test temperature (24-26 °C). The remaining

sample volumes were stored at 0 °C to 6°C.

The DSN001 effluent collection pH was reported as 7.2 on the accompanying chain of

custody record. Therefore, the DSN001 effluent, Tennessee River Water and Treated Tap

Water control samples were pH adjusted and tested at a suppressed pH during the pH-

controlled tests. The pH control was achieved by maintaining the test vessels in an

enclosed atmosphere with carbon dioxide.

Test Organisms

Ceriodaphnia dubia neonates, less then twenty-four-hours (<24 h) old at test initiation,

were obtained from single organism cultures maintained at Pace Analytical following

(USEPA) test manual, "Methods for Determining the Acute Toxicity of Effluents and

Receiving Waters to Freshwater and Marine Organisms," Fifth Edition, 2002. The original

culture brood stock was obtained from the Aquatic BioSystems, Fort Collins, CO.

The fish (Pimephales promelas) used in the tests were obtained from Aquatox, Hot

Springs, AR. The batch of fish was hatched on May 14, 2019 (within a 24-hour window).

The fish were 8 days old at test initiation. During the pre-test period, they were fed newly

hatched brine shrimp three times per day. The fish were not fed during the exposure

period.

Following permit requirements, concurrent reference toxicity tests were performed with

both species. The reference toxicity test consists of organisms being exposed to 5

concentrations of a sodium chloride solution at a 0.5 dilution series and a blank control.

The biological dose response is measured to establish a control chart. The mean and upper

and lower control limits (±2 Stdev) are recalculated with each successive test result.

Page 8

3M Project # GEN19-02-02 Permit # AL0000205

Test Performance

The toxicity tests were initiated within 36 hours following effluent sample collection. The tests were initiated May 22, 2019 between 1453 and 1528 hours. The tests were completed on May 24, 2019 between 1435 and 1540 hours. Tables 1 and 2 summarize the test conditions. Test solution temperatures were measured directly from monitoring and test chambers. The non-controlled pH test temperature range was 24.7-25.4 and the pH-controlled tests temperature range was 24.1-25.7 °C.

The pH-controlled test solutions were adjusted by direct addition of dilute hydrochloric acid (HCl). The HCl was approximately 0.01 N and approximately 1 mL volume was required for adjusting pH of 1 L test solution. The pH-controlled test solution pH was maintained by placing the test vessels in an all glass air tight box followed by exposure to 2.5% carbon dioxide.

Conductivity was measured in the initial effluent and control exposures and pH, dissolved oxygen and temperature were measured in both the initial and final exposure periods.

Twenty-four-hour chemistry measurements were taken from monitoring chambers for the *Ceriodaphnia dubia* test and from aliquots of the fish test solutions. Forty-eight-hour final chemistry measurements were taken directly from each exposure replicate per test concentration following survival observations.

The light reading for the pH-controlled and non-controlled test on May 22 and 24, 2019 were between 52.4 and 61.1 ft-c., which is within the recommended range of 50-100 ft-c.

Submitted to 3M (DSN001) June 2019

RESULTS

Routine Chemistry Results

Table 3 summarizes the results of arrival chemistry. None of the chemistry parameters

indicated abnormal effluent quality for Outfall DSN001.

Toxicity Test Results

The chemistry parameters of pH, dissolved oxygen, and conductivity measured during

each of the toxicity exposures were within the acceptable ranges specified by the USEPA

test methodologies. Table 4 contains the pH, dissolved oxygen, conductivity, and

temperature values obtained for the test solutions during the test battery. Mean values of

the replicate measurements are shown in the tables for the final chemistries. Individual

values can be found in the data package.

Organism survival results are given in Table 5. The laboratory Treated Tap Water,

Tennessee River water, and Outfall DSN001 effluent supported acceptable (100%)

invertebrate survival for the duration of the ambient pH and controlled pH test batteries.

The laboratory Treated Tap Water, Tennessee River water, and Outfall DSN001 effluent

supported acceptable (98-100%) vertebrate survival for the duration of the ambient pH and

controlled pH test batteries.

Sodium Chloride Reference Toxicity Results

The sodium chloride reference toxicity tests performed concurrently with the effluent study

met minimum performance requirements for control survival and produced predictable

concentration responses. The Ceriodaphnia dubia and fathead minnow reference tests

produced a LC₅₀ values within the range of past values.

Pace Analytical control charts containing acute Ceriodaphnia dubia and Pimephales

promelas precision data for sodium chloride for the time of the WET study are shown in

Tables 6 and 7, respectively. Graphical representation of Tables 6 and 7 precision data is

shown in Figures 1 and 2.

Page 10

CONCLUSIONS

The 3M Decatur, Alabama facility final effluent collected from Outfall DSN001 on May 20-21 and tested May 22-24, 2019 supported 100% survival for *Pimephales promelas* (fathead minnow) and *Ceriodaphnia dubia* under standard and pH-controlled test conditions.

TABLE 1. Summary of Test Conditions for *Ceriodaphnia dubia* During 3M

Decatur Plant Whole Effluent Test

F	
Type Test:	Static
Test Duration:	48 Hours
Temperature:	25 +/- 1 °C Actual Range 24.1–25.7 °C
Light Quality:	Ambient Laboratory Illumination
Photoperiod:	16 Hours Light, 8 Hours Darkness
Test Chamber Size and Composition:	30 mL Polystyrene Plastic; For pH Control Exposure, Test Chambers were Contained in Air-Tight All Glass Box with a CO ₂ Enriched Headspace
Test Solution Volume:	20 mL
Renewal Frequency:	None
Age of Test Organisms:	<24 Hours Old
No. of Organisms per Test Chamber:	5
No. of Replicate Chambers per Concentration:	4
No. of Organisms per Concentration:	20
Feeding Regime:	None
Light Intensity	50-100 ft. candles (The recorded range was 52.4-61.1)
Test Solution Aeration:	None
Control Waters:	Primary: Receiving Water (Tennessee River Water) Secondary: Treated Tap Water (TT)
Test Concentrations:	1 Effluent Concentration and Controls
Dilution Series:	100%, Receiving Water Control, and TT Control
Endpoints:	Mortality
Holding Requirements:	Samples are Used Within 36 Hours of Completion of the Sampling Period
Test Acceptability Criterion:	10% or Less Mortality or Immobilization in the Controls

TABLE 2. Summary of Test Conditions for *Pimephales promelas* (Fathead Minnow) During 3M Decatur Plant Whole Effluent Test

Minnow) During 3M Decatur Plant Whole Effluent Test						
Type Test:	Static					
Test Duration:	48 Hours					
Temperature:	25 +/- 1 °C Actual Range 24.1–25.7 °C					
Light Quality:	Ambient Laboratory Illumination					
Photoperiod:	16 Hours Light, 8 Hours Darkness					
Test Chamber Size and Composition:	250 mL Plastic; For pH Control Exposure, Test Chambers were Contained in Air-Tight Glass Box with a CO ₂ Enriched Headspace					
Test Solution Volume:	200 mL					
Renewal Frequency:	None					
Age of Test Organisms:	8 Days Old at Test Initiation (All Hatched Within a 24-Hour Window)					
No. of Organisms per Test Chamber:	10					
No. of Replicate Chambers per Concentration:	4					
No. of Organisms per Concentration:	40					
Feeding Regime:	None During the Test Period					
Light Intensity	50-100 ft. candles (The recorded range was 52.4-61.1)					
Test Solution Aeration:	None					
Control Waters:	Primary: Receiving Water (Tennessee River Water) Secondary: Treated Tap Water (TT)					
Test Concentrations:	1 Effluent Concentration and Controls					
Dilution Series:	100%, Receiving Water Control, and TT Control					
Endpoints:	Mortality					
Holding Requirements:	Samples are Used Within 36 Hours of Completion of the Sampling Period					
Test Acceptability Criterion:	10% or Less Mortality in the Controls					

TABLE 3. Values for Arrival Chemistry Measurements Performed with 3M Decatur Plant Final Effluent DSN001 and Tennessee River Water

Sample ID	Arrival Date	Arrival Temp. (°C)	pH (S.U.)	Cond. ^a (µmhos/cm)	Total Alkalinity (mg CaCO ₃ /L)	Total Hardness (mg CaCO ₃ /L)	NH ₃ -N (mg/L)	TRC ^b (mg/L)	TSS ^c (mg/L)	TDS ^d (mg/L)
Outfall DSN001	05/22/19	1.7	7.8	542	64.4	151	0.38	<0.020	5.6	308
TN River Upstream	05/22/19	1.9	7.8	135	57.2	66.2	<0.10	< 0.020	9.6	80.0

^a Cond. = Specific Conductance

TABLE 4. Values for Chemistry Measurements Obtained During Acute Toxicity Tests with 3M Decatur Plant Final Effluent DSN001 and Tennessee River Water

Ambient pH Tests

		I	nitial		Final ^a					
Sample	C. dubia & Pimephales promelas			C. dubia ^b			Pimephales promelas b			
ID	pH (S.U.)	DO (mg/L)	Temp. (°C)	Cond.	pH (S.U.)	DO (mg/L)	Temp. (°C)	pH (S.U.)	DO (mg/L)	Temp. (°C)
Reference Control, (TT)	7.4	7.9	25.0	113	7.7/7.8	8.1/8.4	25.1/24.8	7.7/7.9	7.6/7.9	25.2/25.4
TN River Water	7.7	8.6	24.7	142	8.0/8.0	8.1/8.4	25.0/24.8	7.9/8.0	7.5/7.9	25.1/25.4
DSN001	7.7	8.5	25.3	548	8.0/8.1	8.1/8.3	24.9/24.9	8.0/8.1	7.4/7.9	25.1/25.4

^a Mean Value from Replicates

pH-Controlled Tests

		1	nitial		Final ^a					
Sample ID	C. dubia & Pimephales promelas				C. dubia ^b			Pimephales promelas ^b		
	pH (S.U.)	DO (mg/L)	Temp.	Cond.	pH (S.U.)	DO (mg/L)	Temp.	pH (S.U.)	DO (mg/L)	Temp.
Reference Control (TT)	7.2	7.4	24.4	117	7.6/7.1	8.5/8.2	24.2/24.4	7.4/7.2	7.5/7.8	24.2/24.2
TN River Water	7.1	8.6	25.7	152	7.8/7.4	8.5/8.2	24.2/24.2	7.5/7.3	7.6/7.7	24.3/24.3
DSN001	7.3	8.3	25.7	566	7.8/7.4	8.4/8.2	24,2/24.1	7.6/7.4	7.4/7.7	24.3/24.3

^a Mean Value from Replicates

^bTRC = Total Residual Chlorine

^c TSS = Total Suspended Solids

^d TDS = Total Dissolved Solids

^b 24-Hour Values/48-Hour Values

^b 24-Hour Values/48-Hour Values

TABLE 5. Cumulative Percentage Survival for Ceriodaphnia dubia and Pimephales promelas after 48-Hour Exposure to 3M Decatur Plant Final Effluent DSN001 and Tennessee River Water

Test Dates	Test Type	. DSN	1001	Tennessee	River Water	Reference Control ^a		
		C. dubia	Pimephales promelas	C. dubia	Pimephales promelas	C. dubia	Pimephales promelas	
05/22-05/24 2019	Standard pH Non- controlled	(20/20) ^b 100°	(40/40) ^b 100°	(20/20) ^b 100°	(39/40) ^b 98°	(20/20) ^b 100°	(40/40) ^b 100 ^c	
	pH Controlled	(20/20) ^b 100°	(40/40) ^b 100°	(20/20) ^b 100°	(40/40) ^b 100°	(20/20) ^b 100°	(40/40) ^b 100°	

^a Reference Control was TT

b # Alive/# Exposed

^c Cumulative Percent Survival

TABLE 6. Precision of Ceriodaphnia dubia Acute Reference Toxicant Testing

Date	LC ₅₀ (g/L)	Mean (g/L)	SD	CV (%)	Lower Limit (g/L)	Upper Limit (g/L)
01/31/18	2.20					
02/06/18	1.83	2.02				
02/21/18	1.77	1.93	0.23	12.0	1.47	2.40
03/06/18	2.50	2.08	0.34	16.4	1.39	2.76
03/20/18	2.10	2.08	0.30	14.2	1.49	2.67
04/18/18	1.67	2.01	0.31	15.6	1.39	2.64
04/25/18	1.70	1.97	0.31	15.7	1.35	2.59
05/01/18	2.33	2.01	0.31	15.6	1.39	2.64
06/12/18	2.34	2.05	0.31	15.3	1.42	2.67
07/18/18	1.83	2.03	0.30	15.0	1.42	2.63
08/08/18	1.89	2.01	0.29	14.4	1.43	2.60
11/28/18	1.68	1.99	0.29	14.8	1.40	2.57
03/20/19	1.83	1.97	0.28	14.4	1.41	2.54
04/17/19	1.74	1.96	0.28	14.3	1.40	2.52
05/09/19	1.77	1.95	0.27	14.1	1.40	2.49
05/22/19	1.71	1.93	0.27	14.1	1.39	2.47

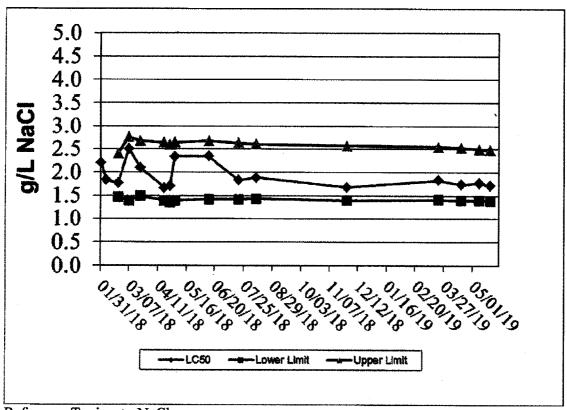
Reference Toxicant - NaCl Organism Source - ABS

TABLE 7. Precision of *Pimephales promelas* Acute Reference Toxicant Testing

Date	LC ₅₀ (g/L)	Mean (g/L)	SD	CV (%)	Lower Limit (g/L)	Upper Limit (g/L)
04/25/18	7.07		12 121			
06/26/18	7.07	7.07				
07/17/18	7.07	7.07	0.00	0.0	7.07	7.07
07/25/18	7.32	7.13	0.13	1.8	6.88	7.38
08/08/18	6.95	7.10	0.14	1.9	6.82	7.37
09/25/18	7.07	7.09	0.12	1.7	6.85	7.34
11/28/18	6.95	7.07	0.12	1.7	6.82	7.32
01/25/19	7.07	7.07	0.11	1.6	6.84	7.30
03/20/19	7.32	7.10	0.14	1.9	6.83	7.37
04/17/19	7.07	7.10	0.13	1.8	6.84	7.35
05/22/19	7.07	7.09	0.12	1.7	6.85	7.34

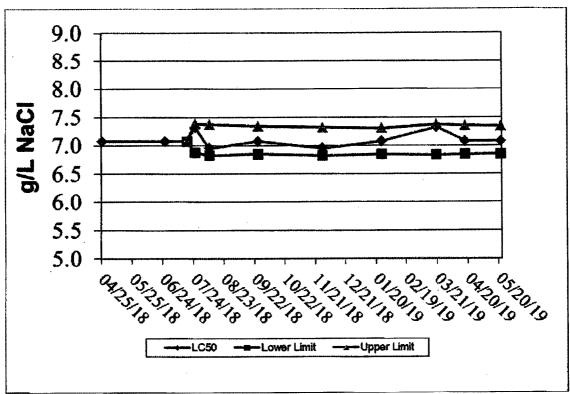
Reference Toxicant - NaCl Organism Source - Aquatox

FIGURE 1. Precision of *Ceriodaphnia dubia* Acute Reference Toxicant Testing



Reference Toxicant - NaCl

FIGURE 2. Precision of *Pimephales promelas* Acute Reference Toxicant Testing



Reference Toxicant - NaCl

APPENDIX A

ADEM Toxicity Test Report Summary

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT TOXICITY TEST REPORT SUMMARY

1. GENE NPDES I Permitee	PERM	INO.:	000020	05		DSN:	001			COUN	TY: <u>N</u>	forgan		
Facility N			Decatu	Γ								***************************************		
•		ing Report:		acee Blan	d									
_		ng Toxicity				cal Service	es II	C (Tel: 1	218-	336-2120))			
Months T		et lon	neska). Nerv — I	March A	oril – Jun	e, July – S	Senter	her Or	ctobe	er – Dece	mber	····		
		r Toxicity T						2019	- COD	<u> </u>	TIDO!			
Schedule			esi(s) r es	X	No	Office Of.		erated	Teet	(e)· \	res		No	X
		ธแร).	_		of		Accel			Schedul	_	Jate.	140	
Test Typ				48-Hr Ac		nina:	_ X	rui re	alleu	Scriedun		ite Defini	itive.	
reat Typ	6 1/0			erm Chro						Short-te	rm Chror			
	Tes	st Organism	n: <i>Pime</i> j	ohales pr	omelas		PROPERTY AND ALL THE PARTY IS NOT THE	Test C)rgai	nism: <i>Cei</i>	iodaphni	ia dubia		
Sam		Date/Time	Start	Date/Time	Ended	· ·	ontrol	Date/Ti	ma	Start	Date/T	ime En	ded	Control
No.	ŀ	MM/DD/YY		MM/DD/Y			/alid	MM/DD		HH:MM	MM/DE		I:MM	Valid
												444.5		
1 (DSN 0		05/22/19	15:00	05/24/19				05/22		14:53	05/24		15:40	
2 (Rive		05/22/19	15:00	05/24/19	15:	40 `	Yes	05/22		14:53	05/24		15:40	Yes
3 (11)	05/22/19	15:00	05/24/19	15:	40		05/22	/19	14:53	05/24	4/19	15:40	
2A.	A. SUMMARY OF RESULTS FOR SCREENING TEST:													
							Te	st Numbe	ЭΓ					
Test	Eff		(1)			(2)				(3)			(4)	1 0
Org.	Con		Rep	Gro	Sur Pass	Rep	Gro		ur 188	Rep	Gro	Sur Pass	Rep	Gro
C.d. P.p.	100		-		Pass				155			Pass	<u> </u>	1
2 B.		MMARY O	E RESI	II TS FOI		TIVE TE	ST.						'	
Test On			INLOC	····		entration (%		,		LC50	NOEC		Not Deter	mined
Test Oil	Agrilori	'	T T	1681 001	20011 00110		-				1.020			
3.	LA	BORATOR	Y ANAL	YSIS OF	UNDILL	ITED SAM	MPLES							
		BOD5	TSS		NH3	pН	_	Alk		Hard	TRC			
Sample		mg/L	mg/l		ng/L	su		ng/L		mg/L	mg/L	_		1
TT (5319)		NA NA	NA 0.0		0.10	7.8		2.9 7.2	ļ	41.0 66.2	<0.020 <0.020	_		1
River Wa		NA NA	9.6 5.6		0.10 0.38	7.8 7.8		4.4	├	151	<0.020			1
Municipal			<u></u>		0.00									
Sample II		Arsenic (□g/L) Cad	lunt	Chromiu	m (□g/L)	Copper	(□g/L)	L	ead (□g/L)		Hexavak	ent Chrom	ium (□g/L)
\			<u>(</u> □g/											
	_ -			1 (5- 10)	0" ("	-21.3	9 1 (5)		+-	atal Commid	- (D-/I)	Othor(a)	70-21	
Sample I	<u> </u>	Mercury (⊟g/t	-) NICH	tel (□g/L)	Silver (g/L)	Zinc (□	3/L)	+-	otal Cyanid	e (ug/L)	Other(s)	(□g/L)	
Chemica	al Ana	lysis Perfo	rmed B	y (LAB):	Pac	e Analytic	al Serv	rices, L	LC					
Instantar	neous	s Flow:	(1)		G	PM						_		
Total 24	-Hour	Flow:	(1) (1)	4.1	M	GD	(2)			MGI	D	(3) _		MGD
Commer	nts:	Flow rate	s provided	d on Chain e	of Custody	form.								
designed to manage the belief, true imprisonm	o assu e system accur ent for	naity of law there that qualified arm, or those prate, and come knowing viole OF RESPO	ed person persons d plete. I a ations.	inel properly irectly respo m aware the	y gather an onsible for g at there are	d evaluate t athering the	he inform e informa penalties	nation sub tion, the for subm	inforr nitting	ed. Based o nation subn	on my inqui nitted is, to nation, incl	ry of the po the best o	erson or p f my know	ersons who ledge and

Facility Name	: <u>3M</u>	Decatur		NPDES	6 #:	00002	205 D\$N:		ate:	June 19	9, 2019	
4. SAMF	PLE CO	LLECTION:										
Split Samples	: N/A	NO	Yes	(expla	in) _							
Samples Colle	ected as	Specified in	n the NPDES P	ermit: Y	es _	<u>x</u>	No (exp	olain)		-		
Receiving Wa	iter:	Tennessee	River Water				De:	sign Flow:	13	.5	(MGD)	
Sample ID	MM/I	DD/YY HHMI	ole(s) Collected MM/DD/YY			rrival np (C)		Used in MM/DD/YY				
DSN 001 River Water			00 - 05/21/19 ⁰⁷ /21/19 1030	00		1.7 1.9		05/22/19 - 05/24/19 05/22/19 - 05/24/19				
			2000					00722 18	00/24/	19		
5. CONT	TROL / I	DILUTION V	VATER:							****		
Туре		Prepared IM/DD/YY	Begi	n Use			Initia	Water Chemis	stries			
π		_	M/DD/YY MM/DD/ NA NA		Hard. mg/L		Alk. mg/L	pH su			© °C	
		INA	P	VA .	4	1.0	42.9	7.8	71	13	25	
												
6. TOXIO		ST INFORM	AATIONI							**************		
Test		Organism		ınism	T		Test S	olution Concen	trations	(%)		
Species		Age	Sou	urce	_					· ·		
C. dubia Pimephales pro		<24-hour 8 Day		nalytical t Springs, AR	-		(II)	0 (River) 0 (River)	.		DSN 001) DSN 001)	
Test Species			t Vessel Type	Vessei Vol. (mL)			Solution Vol. (mL)	Org. / Tes Vessel	st		eplicates er Conc.	
C. dubia			L plastic	30		<u> </u>	20	5			4	
Pimephales pro	omelas	250 n	nL plastic	250			200	10			4	
Test Speci	es	Temp.	Range (°C)	D.O. Rang	ge (mg	2/L)	pH Rar	nge (su)	Ligh	t Intensi	ty Avg. (ft-c)	
C. dubia		24.	1 – 25.7	7.4	- 8.6		7.1	-8.1		52.4		
Pimephales pro	omelas	24.1 - 25.7 7.3 - 8.6 7.1 - 8.1 52.4 - 61.1						- 61.1				
7. FEED	ING:											
Not Fed:	х	Fe	ed Daily:		Fed	Irregul	ar:	(Explain	n in co	mmen	ts below)	
Brine Shrimp:		Fed	mL Sus Larvae	spension of N	lewly	Hatch	ed		Times	s Daily	•	
YCT:		Fed		spension Cor	ntaini	ng	_		mg/L	TSS D	aily.	
Algae:		Fed		spension Cor							nL Daily.	
COMMENTS:									-			

Facility Na	ame: 3M Decatur		NPDE	ES#: _00	00205	DSN: _C	001 Date	: June	19, 2019
8. R	EFERENCE TOXICAN	T TESTS:							
Toxicant:	Sodium chloride		_ Source:	Fisher	Scientific		CAS#:	7647-	14-5
Solution o	oncentration unit:	mg/L	_ g/L	<u> </u>	%		other (spec	:ify):	
Test Org.	Test Date MM/DD - MM/DD	Control Water		R		st Solution C to Highest (concentrations Conc.)		
C. dubia	05/22/19 – 05/24/19	π	0 (TT)	0.625 g/L	1.25 g/L	2.5 g/L	5 g/L	10 g/L	
FHM	05/22/19 05/24/19	т	0 (TT)	1.25 g/L	2.5 g/L	5 g/L	10 g/L	20 g/L	
Test Org.	Results	95% Confiden	ce interval	Uppe		CUSUM Cha (This Test)	art Control Lin	nit .	Number (N)
C. dubia	1.71 g/L	1.39-2.4	7 g/L		1	.52-1.92 g/L			16
FHM	FHM 7.07 g/L 6.85-7.34 g/L Limits are not reliable. 11						11		
9.A. D	EST CONDITION VAR eviations From Standa	rd Test Conditi							
						·			
A P	EQUIRED REPORT A ttach copies of Chain-o hysical, Chemical, and oxicity Tests Data. ITS:	of-Custody For	ms, Referenc	ce Toxicar for All Test	ut Tests, a ts. Include	nd Raw Da Suspend	ata (Bench led, Interru _l	Sheets) oted, or I	Pertaining to Discontinued

ACUTE TOXICITY INDICATED: NO ACUTE STATISTICAL ANALYSIS NECESSARY: Ambient pH / pH Controlled	Facility Name:	3M Decatur		NPDE	ES#: <u>00</u>	00205	_ DSN:	001	Date:	June 19, 2019
ACUTE TOXICITY INDICATED: NO ACUTE STATISTICAL ANALYSIS NECESSARY: Ambient pH / pH Controlled SOLUTION CONC.(%) 0 (TT) 0 (River) 100 MORTALITY (%) 0 / 0 / 0 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 Normally Distributed: YES NO Test Statistic: Critical Value: Unequal variance: 1 - Test Statistic: Critical F: 1 - Test Statistic: Critical Value: Commence: Critical Value: Critical Rank Sum: Fearametric) (Non - Parametric) TEST ORGANISM: Pimephales promeles ACUTE TOXICITY INDICATED: YES NO ACUTE STATISTICAL ANALYSIS NECESSARY: Ambient pH / pH Controlled SOLUTION CONC.(%) 0 (TT) 0 (River) 100 MORTALITY (%) 0 / 0 2 / 0 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 NORTALITY (%) 0 / 0 2 / 0 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 NORTALITY (%) 0 / 0 2 / 0 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 NORTALITY (%) 0 / 0 2 / 0 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 NORTALITY (%) 0 / 0 2 / 0 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 NORTALITY (%) 0 / 0 2 / 0 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 NORTALITY (%) 0 / 0 2 / 0 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 NORTALITY (%) 0 / 0 2 / 0 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 NORTALITY (%) 0 / 0 2 / 0 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 NORTALITY (%) 0 / 0 2 / 0 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 NORTALITY (%) 0 / 0 2 / 0 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 NORTALITY (%) 0 / 0 / 0 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 NORTALITY (%) 0 / 0 / 0 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 NORTALITY (%) 0 / 0 / 0 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 NORTALITY (%) 0 / 0 / 0 / 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 NORTALITY (%) 0 / 0 / 0 / 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 NORTALITY (%) 0 / 0 / 0 / 0 / 0 / 0 / 0 / 0 / 0 / 0	11.A. ACUTE	SCREENING T	FOXICITY TE	STS RESULTS	(Freshwa	iter):				
Ambient pH / pH Controlled						NO	x			
SOLUTION CONC.(%)	NO ACUTE STA	TISTICAL ANA	ALYSIS NEC	ESSARY:	X					•
SOLUTION CONC.(%)			Amhie	nt pH / pH Conti	rolled					
MORTALITY (%) Documentary Documentary Document	SOLUTION CO	NC.(%)								
Test Statistic: Critical Value: (Parametric) Equal variance: Unequal variance: Critical F: Statistic: Critical F: Statistic: t - Test Critical F: Critical Rank Sum: (Non - Parametric) Sample Rank Sum: # Reps.: Critical Rank Sum: (Non - Parametric) COMMENTS: Above statistical analyses not required/applicable TEST ORGANISM: Pimephales prometas ACUTE TOXICITY INDICATED: YES NO X NO ACUTE STATISTICAL ANALYSIS NECESSARY: X Ambient pH / pH Controlled SOLUTION CONC.(%) 0 (TT) 0 (River) 100 MORTALITY (%) 0 / 0 2 / 0 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 Normally Distributed: YES NO Fest Statistic: Critical Value: (Parametric) Gual variance: Unequal variance: Critical F: Statistic: Critical F: Statistic: Critical F: Test Critical Value: Critical Rank Sum: (Non - Parametric) Sample Rank Sum: # Reps.: Critical Rank Sum: (Non - Parametric)										
Normally Distributed: YES	DEDMITTED MA		E (0/). 50	0/ for DON 004						
Test Statistic: Critical Value: (Parametric) Equal variance: Unequal variance: Critical F: Statistic: Critical F: Statistic: t - Test Critical F: Critical Rank Sum: (Non - Parametric) Sample Rank Sum: # Reps.: Critical Rank Sum: (Non - Parametric) COMMENTS: Above statistical analyses not required/applicable TEST ORGANISM: Pimephales prometas ACUTE TOXICITY INDICATED: YES NO X NO ACUTE STATISTICAL ANALYSIS NECESSARY: X Ambient pH / pH Controlled SOLUTION CONC.(%) 0 (TT) 0 (River) 100 MORTALITY (%) 0 / 0 2 / 0 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 Normally Distributed: YES NO Fest Statistic: Critical Value: (Parametric) Gual variance: Unequal variance: Critical F: Statistic: Critical F: Statistic: Critical F: Test Critical Value: Critical Rank Sum: (Non - Parametric) Sample Rank Sum: # Reps.: Critical Rank Sum: (Non - Parametric)	Normally Distrib	uted:		% TOT DSN 001	NO					
Equal variance: Unequal variance: Critical F: t- Test Statistic: t - Test Critical F: t- Test Statistic: t - Test Critical Value: Critical Rank Sum: # Reps.: Critical Rank Sum: (Non - Parametric) TEST ORGANISM: Pimephales prometas ACUTE TOXICITY INDICATED: YES NO X NO ACUTE STATISTICAL ANALYSIS NECESSARY: X Ambient pH / pH Controlled SOLUTION CONC.(%) 0 (TT) 0 (River) 100 MORTALITY (%) 0 / 0 2 / 0 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 Normally Distributed: YES NO Critical Value: (Parametric) Fest Statistic: Critical F: Critical F: Statistic: Critical F: Test Statistic: Critical F: Test Statistic: Test Statistic: Test Critical Value: (Non - Parametric) Fermiple Rank Sum: # Reps.: Critical Value: (Non - Parametric)				Critical Value				Param	etric\	
F Statistic: Critical F: - Test Statistic: t - Test Critical Value: Sample Rank Sum: # Reps.: Critical Rank Sum: (Non - Parametric) FEST ORGANISM: Pimephales promelas ACUTE TOXICITY INDICATED: YES NO X NO ACUTE STATISTICAL ANALYSIS NECESSARY: X Ambient pH / pH Controlled SOLUTION CONC.(%) 0 (TT) 0 (River) 100 MORTALITY (%) 0 / 0 2 / 0 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 Normally Distributed: YES NO CRITICAL Value: (Parametric) Fest Statistic: Critical Value: (Parametric) Complex Rank Sum: # Reps.: Critical Rank Sum: (Non - Parametric)			_				,	, Diam	eu ioj	
t - Test Statistic:										
Sample Rank Sum: # Reps.: Critical Rank Sum: (Non - Parametric) FEST ORGANISM: Pimephales promelas ACUTE TOXICITY INDICATED: YES NO X NO ACUTE STATISTICAL ANALYSIS NECESSARY: X Ambient pH / pH Controlled SOLUTION CONC.(%) 0 (TT) 0 (River) 100 MORTALITY (%) 0 / 0 2 / 0 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 Normally Distributed: YES NO Fest Statistic: Critical Value: (Parametric) Equal variance: Unequal variance: (Parametric) Statistic: t - Test Critical Value: (Non - Parametric) Example Rank Sum: # Reps.: Critical Rank Sum: (Non - Parametric)	- Test Statistic:		•		_					
COMMENTS: Above statistical analyses not required/applicable FEST ORGANISM: Pimephales promelas ACUTE TOXICITY INDICATED: YES NO X NO ACUTE STATISTICAL ANALYSIS NECESSARY: X		ım:	# Re		_	Critical F	Rank Sum			(Non - Parametric)
TEST ORGANISM: Pimephales prometas ACUTE TOXICITY INDICATED: YES NO X NO ACUTE STATISTICAL ANALYSIS NECESSARY: X Ambient pH / pH Controlled SOLUTION CONC.(%) 0 (TT) 0 (River) 100 MORTALITY (%) 0 / 0 2 / 0 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 Normally Distributed: YES NO Fest Statistic: Critical Value: (Parametric) Equal variance: Unequal variance: Critical F: - Test Statistic: t - Test Critical Value: (Non - Parametric) Sample Rank Sum: # Reps.: Critical Rank Sum: (Non - Parametric)					 annlicabl	91160G 1	tank Our	· —		(NOII - Fatametric)
Ambient pH / pH Controlled SOLUTION CONC.(%) 0 (TT) 0 (River) 100 MORTALITY (%) 0 / 0 2 / 0 0 / 0 PERMITTED MORTALITY RATE (%): 50% for DSN 001 Normally Distributed: YES NO Fest Statistic: Critical Value: (Parametric) Equal variance: Unequal variance: Critical F: - Test Statistic: t - Test Critical Value: Sample Rank Sum: # Reps.: Critical Rank Sum: (Non - Parametric)						NO	Y			
SOLUTION CONC.(%)	NO ACUTE STA	TISTICAL ANA						_		
MORTALITY (%) PERMITTED MORTALITY RATE (%): 50% for DSN 001 Normally Distributed: YES NO Test Statistic: Critical Value: (Parametric) Equal variance: Unequal variance: Critical F: - Test Statistic: t - Test Critical Value: Sample Rank Sum: # Reps.: Critical Rank Sum: (Non - Parametric)	SOLUTION CO	NC.(%)								
Normally Distributed: YES					0/0					
Sample Rank Sum: # Reps.: Critical Rank Sum: (Non - Parametric)	Normally Distribu Fest Statistic: Equal variance: - Statistic:			Critical Value: Unequal va	ariance: _ ritical F: _		(Parame	etric)	
		m:								A.
	COMMENTS:) • • - • • • • • • •	∍⊓ticai K	ank Sum	:		(Non - Parametric)

APPENDIX B

Data Packages

Pace Analytical Services, LLC

Client:	3M Decatur	
State:	Alabama	
Pace Proj	ect #: 12125136	
Test: A	cute Toxicity Evaluation	
	·	
Test Initia	ation Date: May 22, 2019	
Test Term	nination Date: May 24, 2019	

ENVIRONMENTAL SAMPLE TEST INFORMATION

D : 34 00 0010			
Date: May 22, 2019			
Client: 3M Decatur			
Pace Project #: 12125136			
Dilution Water: None (Rive		ntrols)	i.
Test Chamber: 1oz plastic, 2	250 mL Plastic		
Food: None			
Required Testing Temperate	re: 24-26°C		
		Fathead Minnow 8 day/ Aquatox	
C. dubia: Incubator #1 and I	Bath # 5		
Fathead Minnow: Incubator	#1 and Bath #5		
C dubia Culture ID: ACD-	129		
Comments:			
Effluent and control waters tested		· · · · · · · · · · · · · · · · · · ·	
Effluent collection pH r	eported as 7.2, Eff	luent flow reported as 4.	MGD
Light Meter Readings (FC)			-
		APR S/2214	
Date / Init / Reading	Incubator #1	Bath-#1 Ba-14 #5	
5/22/19 APR	59.2	52.7	
5/23/19 AIR	61.1	52.4	
5/24/19 APR	54.9	57.5	
3/0///			
			·
			- <u>-</u>

TOXICITY TEST RENEWAL FORM

CLIENT:	3M Decatur	PACE PROJECT #; 12125	5136	
TEST:	Acute Toxicity	TEST INITIATION DATE:	May 22, 2019	
ORGANISM:	Ceriodaphnia dubia, Fathead Minnow	TEST TERMINATION DATE:	May 24, 2019	

				A	ge	Sc	ource	
Test (Organis m	C. di	ubia	<24	hours	F	Pace	
		FH	M	8 d.	vy 5	Aquatox		
TES	T DAY	(Test In	•	1			2	
DATE		SIZZI	19	5/23/	19	5/24/	19	
3	C. dubia	pH Cont.	pH Non Cook	1413	pH Non Count	pH Cont 1435	pH Non Com	
Reading	Initials	pH Cont APR	pH Non Cont APR	PH Cont APK	PAR A	pH Cont APK	pH Non Cont ALB	
Renewal/Reading (±1 hour of initiation)	FHM	pH Cont	pH Non Core 1525	pH Cont	145 l	1438	pH NonCont 1540	
(‡)	Initials	pH Cont APR	pH Non Coef	PH Cons	pH Non Cool APR	pH Cont APR	pH Non Case ALB	
	C. dubia	0955	5 140350 180075	N.	/ A	N	/ A	
Feeding / Food IDs	Initials	CZA	٨.	N/A		N/A		
Feed	FHM	12	15	N/A		N/A		
	Initials	86	表大	N/A		N/A		
O	Primary Control	Tennessee River Water (12125136-002)		N.	N/A		·/ A	
Sample/Control Info.	Secondary Control	Treated Tap 5319		N	/ A	N	/ A	
ple/C	Sample #	#1		N.	/ A	N	/ A	
Sam	Effluent Filtered (Yes / No)	No		N	N/A		/ A	
	Initials	944	44	APR	APR		ALB	

INITIAL CHEMISTRIES

CLIENT: 3M Decatur	Pace Project #: 12125136		
TEST: Acute Toxicity	TEST INITIATION DATE:	May 22, 2019	
ORGANISM(S): Ceriodaphnia dubia, Fathead Minnow	TEST TERMINATION DATE:	May 24, 2019	

pH Non-Controlled

	Date/Time/Initials
	5/22/19 1341 APR
CONCENTRATIO	N: Secondary Control - Treated Tap
pH (su)	7, 39
DO (mg/L)	7,9
Cond (umhos/com)	113
Temp (°C)	34.6 An 5/22/19 25.0
CONCENTRATIO	N: Primary Control – River Water
pH (su)	7.72
DO (mg/L)	8.6
Cond (umhos/com)	142
Temp (°C)	24.7
CONCENTRATIO:	N: 100 Percent Effluent
pH (su)	7,73
DO (mg/L)	8.5
Cond (umhos/com)	548
Temp (°C)	25.3

INITIAL CHEMISTRIES

CLIENT: 3M Decatur	Pace Project #: 12125136
TEST: Acute Toxicity	TEST INITIATION DATE: May 22, 2019
ORGANISM(S): Ceriodaphnia dubia, Fathead Minnow	TEST TERMINATION DATE: May 24, 2019

pH Controlled

	Date/Time/Initials
	5/22/19 APR
CONCENTRATIO	N: Secondary Control – Treated Tap
pH (su)	7.15
DO (mg/L)	7.4
Cond (umhos/com)	acc = 117.0
Temp (°C)	25.8 24.4
CONCENTRATIO	N: Primary Control – River Water
pH (su)	7.12
DO (mg/L)	8.6
Cond (umhos/com)	152
Temp (°C)	25.7
CONCENTRATIO	N: 100 Percent Effluent
pH (su)	7,29
DO (mg/L)	8.3
Cond (umhos/com)	566
Temp (°C)	25.7

FINAL CHEMISTRIES

CLIENT:	3M Decatur	Pace Project #: 12125136
TEST:	Acute Toxicity	TEST INITIATION DATE: May 22, 2019
ORGANISM:	Ceriodaphnia dubia	TEST TERMINATION DATE: May 24, 2019

pH Non-Controlled

	24 Hour 5/23/19 APR 1507	5/		Hour / 1607-	
Treated Tap	From Monitoring Chamber (24 hour values)	A	В	C	D
pH (su)	7.71	7.78	7.81	7,77	7.76
DO (mg/L)	8.1	8.3	8.4	8,4	8.3
Cond (umhos/com)	126	128	177	129	127
Temp (°C)	25.1	24.8	24.8	74.8	24.8
River Water	From Monitoring Chamber (24 hour values)	A	В	C	D
pH (su)	7.98	8.04	8.05	8.00	7.97
DO (mg/L)	8.1	8,3	8.3	8.4	8.4
Cond (umhos/com)	156	169	166	162	163
Temp (°C)	25.0	२५.४	24.9	24.8	24.8
100%	From Monitoring Chamber (24 hour values)	A	В	C	D
pH (su)	8,04	8.13	8.00	8.09	8.07
DO (mg/L)	8.	8,3	8.3	8,3	8.4
Cond (umhos/com)	577	637	638	638	648
Temp (°C)	24.9	24.7	24,9	24,9	24.9



FINAL CHEMISTRIES

CLIENT:	3M Decatur	Pace Project #: 12125136	
TEST:	Acute Toxicity	TEST INITIATION DATE: May 22, 2019	_
ORGANISM:	Fathead Minnow	TEST TERMINATION DATE: May 24, 2019	

pH Non-Controlled

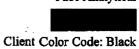
	5/23/		Hour 033		5/:	48 I 24/17 Apa	Hour 1614	
Treated Tap	A	В	C	D	A	В	C	D
pH (su)	7.70	7.77	7.73	7.73	7.85	7.88	7.86	7.85
DO (mg/L)	7.6	7.6	7.5	7.6	7.9	7.9	7.9	7.1
Cond (umhos/com)	138	138	139	136	143	148	145	142
Temp (°C)	75.2	25.3	25.2	25.2	25.3	25.4	25.4	25.4
River Water	A	В	C	D Au spilis	A	В	C 8,01 A/4	D
pH (su)	7.90	7.89	7.88	A. 8.00	7.95	7.97	8.01 (12M)	8.10
DO (mg/L)	7.5	7.4	7.4	7.5	7.9	7.9	7.9	7.9
Cond (umhos/com)	167	163	164	173	173	172	177	187
Temp (°C)	75,2	25.2	25,1	25.0	25.4	25.4	25.4	25.3
100%	A	В	C	D	A	В	C	D
pH (su)	7.95	7.96	7,97	7.96	8.05	8.07	8,07	8.07
DO (mg/L)	7.3	7.4	7.4	7.4	7.9	7.9	7.9	7.8
Cond (umhos/com)	562	570	576	589	578	596	612	646
Temp (°C)	25,1	25.1	25.2	25.1	25,4	25.4	25.4	25. z

FINAL CHEMISTRIES

CLIENT:	3M Decatur	Pace Project #: 12125136
TEST:	Acute Toxicity	TEST INITIATION DATE: May 22, 2019
ORGANISM:	Ceriodaphnia dubia	TEST TERMINATION DATE: May 24, 2019

pH Controlled

	24 Hour 5/23/19 Aft 1443		5/24/19 A	Hour #R 1542	
Treated Tap	From Monitoring Chamber (24 hour values)	A	В	C	D Am 5/24/19
pH (su)	7.59	7.09	7.09	7.13	7.1 7.25
DO (mg/L)	8,5	8.2	8.2	8,2	8.2
Cond (umhos/com)	121	15-C 2124	126	127	128
Temp (°C)	24.2	24.3	24.4	24,4	74.3
River Water	From Monitoring Chamber (24 hour values)	A	В	С	D
pH (su)	7.83	7.24	7.24	7.28	7.68
DO (mg/L)	8.5	8,2	8.2	8.2	8.2
Cond (umhos/com)	157	161	161	163 422	164
Temp (°C)	24.2	24,3	24.3	24.2	24.1
100%	From Monitoring Chamber (24 hour values)	A	В	C	D
pH (su)	7.80	7.45 7.08 414.5/24/1	7.40	7.41	7.41
DO (mg/L)	8.4	8.2	8.2	8.2	5.8
Cond (umhos/com)	567	566 123 412 9/240	579	580	579
Temp (°C)	24.2	24.1	24.1	24.1	24.1



FINAL CHEMISTRIES

CLIENT:	3M Decatur	Pace Project #: 12125136
TEST:	Acute Toxicity	TEST INITIATION DATE: May 22, 2019
ORGANISM:	Fathead Minnow	TEST TERMINATION DATE: May 24, 2019

pH Controlled

	µ	H CON	H OHEU						
	5/23/1	24 Hour 5/23/19 APL 1422				48 Hour 5/24/19 HPR 15 54			
Treated Tap	A	В	C	D	A	В	C	D	
pH (su)	7.34	7.41	7.37	7.37	7.15	7.17	7.16	7,15	
DO (mg/L)	7.5	7.4	7.5	7.6	7.8	7.8	7.8	7.8	
Cond (umhos/com)	123	134	132	125	130	134	133	127	
Temp (°C)	24.1	24.1	24.2	24.2	24.3	24.2	24.1	24.1	
River Water	A	В	C	D	A	В	C	D	
pH (su)	7.52	7.53	7.58	7.55	7.25	7.28	7.30	7.30	
DO (mg/L)	7.6	7.6	7.6	7.5	7.8	7.7	7,7	7.7	
Cond (umhos/com)	162	164	167	161	163	166	169	164	
Temp (°C)	24.2	24.2	24.3	24.3	24.2	24.3	24,3	24,4	
Trea <u>ted Tap +</u> Na Thiosulfate	A	В	С	D	A	В	C		
pH (su)			ARR						
DO (mg/L)			5/23/19	Non-	Appl; e.ble				
Cond (umhos/com)									
Temp (°C)									
100%	A	В	C	D	A	В	С	D	
pH (su)	7.58	7.56	7.60	7.62	7.33	7.37	7.36	7,34	
DO (mg/L)	7.4	7.3	7.5	7.5	7.8	7.7	7.7	ア ・テ	
Cond (umhos/com)	564	569	568	569	559	571	572	572	
Temp (°C)	24.1	24.3	24,3	24.3	24.2	24,2	24.3	24.3	

Page 9 of 13

Last printed 5/22/2019 8:35:00 AM

ACUTE TOXICITY DATA LOG

Client: 3M Decatur	
Project #: 12125136	
Test: Acute Toxicity pH Non-Controlled	
Test Initiation Date: May 22, 2019	
Investigator: Toms	
Test Duration: 48 Hours	
Renewal: None	

Species: Ceriodaphnia dubia
Age: <24 Hours
No. Animals/No. Reps: 5/4
Sources of Animals: Pace Anaytical
Dilution Water/Control: River Water/TT
Test Volume: 20 mL
Required Test Temperature: 24-26 °C
Minimum Control Survival ≥ 90%: (Yes) No)

24 Hour Replicate A B C	D		48 I	· T	
		A		Hour blicate C	Đ
5 5 5	5	5	5	5	5
5 5 5 5	5	5	5	5	5
5 5 5 5	5	5	5	5	5
5/23/19 APA				AL	B
	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 23 lig APA	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

Page 10 of 13 Last printed 5/22/2019 8:35:00 AM

ACUTE TOXICITY DATA LOG

Client: 3M Decatur

Project #: 12125136

Test: Acute Toxicity pH Non-Controlled

Test Initiation Date: May 22, 2019

Investigator: Toms

Test Duration: 48 Hours

Renewal: None

Species: Fathead Minnow

Age: 8 day

No. Animals/No. Reps: 10/4

Sources of Animals: Aquatox

Dilution Water/Control: River Water/TT

Test Volume: 200 mL

Required Test Temperature: 24-26 °C

Minimum Control Survival ≥ 90%: (Yes No)

Survival Readings: (# alive out of # exposed from above unless shown otherwise)														
A	Re	plicate	r D	A			D	A			A			D
10	10	10	10	10	10	10	10	\						
10	10	9	10	10	10	9	Ó					, sale		
10	lo	10	10	10	10	W	10							
	3/19	د				AU	 ع	Dated Initi	oks		Dated 1	natiols		
						,								
	IO IO Detect in	10 10 10 10 10 10 10 10 10 10	Replicate R	24 Hour Replicate A B C D 10 10 10 10 10 10 10 9 10 10 10 10 10 Detect Infinite 5 23 19	24 Hour Replicate A B C D A 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 Detect Initials 5 23 17	24 Hour Replicate A B C D A B 10 10 10 10 10 10 10 10 10 10 9 10 10 10 10 10 10 10 10 10 10 Deted Initials 5/2/19 7/24/19	24 Hour Replicate A B C 10 10 10 10 10 10 10 10 10 10 10 10 10 1	24 Hour Replicate A B C D 10 10 10 10 10 10 10 10 10 10 10 10 10 1	24 Hour Replicate A B C D A B C D A 10 10 10 10 10 10 10 10 10 10 10 10 9 10 10 10 9 10 10 10 10 10 10 10 10 10 Detail Infinite 5 2 19 APR. 48 Hour Replicate A B C D A Detail Infinite State Infinite That I 19 APR. 48 Hour Replicate A B C D A Detail Infinite A B C D A A B C D D A Detail Infinite That I 19 APR. 44.13	24 Hour Replicate A B C D A B 10 10 10 10 10 10 10 10 10 10 10 10 10 1	24 Hour Replicate A B C D A B C D 10 10 10 10 10 10 10 10 10 10 10 10 10 1	24 Hour Replicate A B C D A B C D A 10 10 10 10 10 10 10 10 10 10 10 10 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10 Detect Initials 5 2 12 19 APR. 48 Hour Replicate A B C D A 10 10 10 10 10 10 10 Detect Initials 5 12 19 APR. APR. 48 Hour Replicate A B C D A B C D A B C D A B C D A B C D A Detect Initials Detect Initials Detect Initials Detect Initials APR. APR.	24 Hour Replicate A B C D A B C D A B C D 10 10 10 10 10 10 10 10 10 10 10 10 10 1	24 Hour Replicate A B C D D D D D D D D D D D D D D D D D D

ACUTE TOXICITY DATA LOG

Client: 3M Decatur

Project #: 12125136

Test: Acute Toxicity **pH Controlled**Test Initiation Date: May 22, 2019

Investigator: Toms

Test Duration: 48 Hours

Renewal: **None**

Species: Ceriodaphnia dubia
Age: <24 Hours
No. Animals/No. Reps: 5/4
Sources of Animals: Pace Analytical
Dilution Water/Control: River Water/TT
Test Volume: 20 mL
Required Test Temperature: 24-26 °C
Minimum Control Survival ≥ 90%: (Yes /No)

pH Controlled

	Survival Readings: (# alive out of # exposed from above unless shown otherwise)									
Concentration	24 Hour Replicate A B C D	48 Hour Replicate A B C D								
Treated Tap	5 5 5 5	5 5 5 5								
River Water	5 5 5 5	5 5 5 5								
100%	5 5 5 5	5 5 5 5								
•	5/23/19 AIL	5/24/19 APR								
ments:										

ACUTE TOXICITY DATA LOG

Client: 3M Decatur

Project #: 12125136

Test: Acute Toxicity **pH Controlled**Test Initiation Date: May 22, 2019

Investigator: Toms

Test Duration: 48 Hours

Renewal: **None**

Species: Fathead Minnow	
Age: 8 day	
No. Animals/No. Reps: 10/4	
Sources of Animals: Aquatox	
Dilution Water/Control: River	: Water/TT
Test Volume: 200 mL	
Required Test Temperature: 2	4-26°C
Minimum Control Survival ≥	90%: (Yes \ No)

pH Controlled

			(#	alive o	at of#					shown	otherw	ise)	,	
A			r D	A				A			D	A	96 Hour Replicate B C	D
10	10	10	10	10	10	10	10							
10	10	10	10	10	10	10	10							
10	10	10	10	10	•-	10	10							
	3/19	APR			4/19			Detect Initi	āli			Dated Initi	de .	<u></u>
								•						
	10 10	A B 10 10 10 10 10	A B C 10 10 10 10 10 10 10 10 10 Dated Initials 5 23 19	24 Hour Replicate A B C D 10 10 10 10 10 10 10 10 10 10 10 10 Dated Initials 5 23 19	24 Hour Replicate A B C D A 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 Dated Initials 5/72	24 Hour Replicate A B C D A B 10 10 10 10 10 10 10 10 10 10 10 10 10 1	C A A A A A B C	# alive out of # exposed from 24 Hour Replicate A B C D 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 Dated Initials 5 23 19 4 5 24 19	# alive out of # exposed from above to the second from above the second from above to the second from above to the second from above the second from abov	24 Hour Replicate A B C D A B C D A B 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 Deced initials 5 23 19 4 4 4 5 5 24 11	# alive out of # exposed from above unless shown 24 Hour Replicate A B C D A B C D A B C 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 Dated Initials 5 23 19 4	# alive out of # exposed from above unless shown otherw 24 Hour Replicate A B C D A B C D 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 Deced initials 5 23 19 4 4 4 5 5 24 11	# alive out of # exposed from above unless shown otherwise) 24 Hour	(# alive out of # exposed from above unless shown otherwise) 24 Hour Replicate A B C D A B C D A B C D A B C 0 0 0 0 0 0 0 0 0 0

APPENDIX C

Lab Report and Chain of Custody





June 06, 2019

Patricia Tcaciuc 3M Bldg 260-5N-17, 3M Center Saint Paul, MN 55144

RE: Project: GEN19-02-02

Pace Project No.: 12125136

Dear Patricia Tcaciuc:

Enclosed are the analytical results for sample(s) received by the laboratory on May 22, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Dan J Toms dan.toms@pacelabs.com (218) 727-6380 Project Manager

an Toms

Enclosures







CERTIFICATIONS

Project:

GEN19-02-02

Pace Project No.:

12125136

Virginia Minnesota Certification ID's

315 Chestnut Street, Virginia, MN 55792
Alaska Certification UST-107
Montana Certificate #CERT0103
Minnesota Dept of Health Certification #: 027-137-445

North Dakota Certification: # R-203

Wisconsin DNR Certification #: 998027470 WA Department of Ecology Lab ID# C1007

Duluth Minnesota Cerification ID's

4730 Oneota St., Duluth, MN 55807 Montana DHHS Certification #: CERT0102 Minnesota Dept of Health Certification #: 1610186 Wisconsin DNR Certification #: 999446800

North Dakota Certification #: R-105

REPORT OF LABORATORY ANALYSIS



SAMPLE SUMMARY

Project:

GEN19-02-02

Pace Project No.: 12125136

Lab ID	Sample ID	Matrix	Date Collected	Date Received
12125136001	Decatur Effluent	Water	05/21/19 07:00	05/22/19 10:35
12125136002	Decatur Receiving Water	Water	05/21/19 10:30	05/22/19 10:35
12125136003	Decatur Effluent (pH Adjusted)	Water	05/21/19 07:00	05/22/19 10:35



SAMPLE ANALYTE COUNT

Project:

GEN19-02-02

Pace Project No.: 12125136

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
12125136001	Decatur Effluent	SM 2540C (1997)	DW1	1	PASI-DUL
		EPA 350.1 rev.2 (1993)	DW1	1	PASI-DUL
		SM 4500-CL E (2000 & 2011)	ALB	1	PASI-DUL
		USGS I-3765-85 (1985)	DW1	1	PASI-DUL
		EPA 200.7	AK1	1	PASI-V
		SM 2320B	ZJT	1	PASI-V
		SM 2510B	ZJT	1	PASI-V
		SM 4500-H+B	ZJT	1	PASI-V
12125136002	Decatur Receiving Water	SM 2540C (1997)	DW1	1	PASI-DUL
	_	EPA 350.1 rev.2 (1993)	DW1	1	PASI-DUL
		SM 4500-CL E (2000 & 2011)	ALB	1	PASI-DUL
		USGS I-3765-85 (1985)	DW1	1	PASI-DUL
		EPA 200.7	AK1	. 1	PASI-V
		SM 2320B	ZJT	1	PASI-V
		SM 2510B	ZJT	1	PASI-V
		SM 4500-H+B	ZJT	1	PASI-V

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project:

GEN19-02-02

Pace Project No.:

Date: 06/06/2019 12:49 PM

12125136

Sample: Decatur Effluent	Lab ID: 121	25136001	Collected: 05/21/1	9 07:00	Received: 05	/22/19 10:35 N	latrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Met	hod: SM 254	OC (1997)		•			
Total Dissolved Solids	308	mg/L	20.0	1		05/24/19 12:59		
350.1 Ammonia	Analytical Met	hod: EPA 35	0.1 rev.2 (1993)					
Nitrogen, Ammonia	0.38	mg/L	0.10	1		05/23/19 16:18	7664-41-7	
4500CL E Chlorine, Residual	Analytical Met	thod: SM 450	00-CL E (2000 & 201	1)				
Chlorine, Total Residual	<0.020	mg/L	0.020	1		05/22/19 16:25	7782-50-5	H6
USGS 1-3765 TSS	Analytical Me	thod: USGS I	l-3765-85 (1 985)					
Total Suspended Solids	5.6	mg/L	1.0	1		05/24/19 15:39		
200.7 MET ICP	Analytical Me	thod: EPA 20	0.7 Preparation Met	thod: EP	A 200.7			
Total Hardness	151	mg/L	3.3	1	05/24/19 11:00	05/30/19 09:32		
2320B Alkalinity	Analytical Me	thod: SM 232	20B ·					
Alkalinity, Total as CaCO3	64.4	mg/L	10.0	1		05/23/19 15:22		
2510B Specific Conductance	Analytical Me	thod: SM 251	10B					
Specific Conductance	542	umhos/cm	10.0	1		05/23/19 15:22		
4500H+ pH, Electrometric	Analytical Me	thod: SM 450	00-H+B					
pH at 25 Degrees C	7.8	Std. Units	0.10	1		05/23/19 15:22		H6
Sample: Decatur Receiving Water	Lab ID: 12	126136002	Collected: 05/21/1	19 10:30	Received: 05	5/22/19 10:35 N	Matrix: Water	
	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Parameters					rrepared	Allayzou	<u> </u>	
2540C Total Dissolved Solids	Analytical Me			_				
Total Dissolved Solids	80.0							
•		mg/L	20.0	1		05/24/19 12:59		
350.1 Ammonia	Analytical Me	lhod: EPA 35	0.1 rev.2 (1993)		•			
350.1 Ammonia Nitrogen, Ammonia	Analytical Me	lhod: EPA 35 mg/L	0.1 rev.2 (1993) 0.10	1		05/24/19 12:59		
350.1 Ammonia Nitrogen, Ammonia 4500CL E Chlorine, Residual	Analytical Me <0.10 Analytical Me	thod: EPA 35 mg/L thod: SM 450	0.1 rev.2 (1993) 0.10 00-GLE (2000 & 201	1		05/23/19 16:20	7664-41-7	
350.1 Ammonia Nitrogen, Ammonia 4500CL E Chlorine, Residual	Analytical Me <0.10 Analytical Me <0.020	thod: EPA 35 mg/L thod: SM 450 mg/L	0.1 rev.2 (1993) 0.10 00-CL E (2000 & 201 0.020	1			7664-41-7	Н6
350.1 Ammonia Nitrogen, Ammonia	Analytical Me <0.10 Analytical Me <0.020 Analytical Me	thod: EPA 35 mg/L thod: SM 450 mg/L thod: USGS	0.1 rev.2 (1993) 0.10 00-CL E (2000 & 201 0.020 I-3765-85 (1985)	1 1) 1		05/23/19 16:20 05/22/19 16:30	7664-41-7 7782-50-5	Н6
350.1 Ammonia Nitrogen, Ammonia 4500CL E Chlorine, Residual Chlorine, Total Residual	Analytical Me <0.10 Analytical Me <0.020 Analytical Me 9.6	thod: EPA 35 mg/L thod: SM 450 mg/L thod: USGS mg/L	0.1 rev.2 (1993) 0.10 00-CL E (2000 & 201 0.020 I-3765-85 (1985)	1 1) 1		05/23/19 16:20	7664-41-7 7782-50-5	Н6
350.1 Ammonia Nitrogen, Ammonia 4500CL E Chlorine, Residual Chlorine, Total Residual USGS I-3765 TSS	Analytical Me <0.10 Analytical Me <0.020 Analytical Me 9.6	thod: EPA 35 mg/L thod: SM 450 mg/L thod: USGS mg/L	0.1 rev.2 (1993) 0.10 00-CL E (2000 & 201 0.020 I-3765-85 (1985)	1 1) 1	PA 200.7	05/23/19 16:20 05/22/19 16:30	7664-41-7 7782-50-5	Н6
350.1 Ammonia Nitrogen, Ammonia 4500CL E Chlorine, Residual Chlorine, Total Residual USGS I-3765 TSS Total Suspended Solids	Analytical Me <0.10 Analytical Me <0.020 Analytical Me 9.6	thod: EPA 35 mg/L thod: SM 450 mg/L thod: USGS mg/L	0.1 rev.2 (1993) 0.10 00-CL E (2000 & 201 0.020 I-3765-85 (1985)	1 1) 1		05/23/19 16:20 05/22/19 16:30	7664-41-7 7782-50-5	Н6
350.1 Ammonia Nitrogen, Ammonia 4500CL E Chlorine, Residual Chlorine, Total Residual USGS I-3765 TSS Total Suspended Solids 200.7 MET ICP	Analytical Me <0.10 Analytical Me <0.020 Analytical Me 9.6 Analytical Me	thod: EPA 35 mg/L thod: SM 450 mg/L thod: USGS mg/L thod: EPA 20 mg/L	0.1 rev.2 (1993) 0.10 0.0-CL E (2000 & 201 0.020 I-3765-85 (1985) 1.0 0.7 Preparation Me 3.3	1 1) 1 1 thod: EF		05/23/19 16:20 05/22/19 16:30 05/24/19 15:39	7664-41-7 7782-50-5	Н6

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project:

GEN19-02-02

Page Project No.: 12125136

Sample: Decatur Receiving Water	Lab ID: 12	125136002	Collected: 05/21/	19 10:30	Received:	05/22/19 10:35	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2510B Specific Conductance	Analytical Me	ethod: SM 25	10B					
Specific Conductance	135	umhos/cn	10.0	1		05/23/19 15:3	8	
4500H+ pH, Electrometric	Analytical Mo	ethod: SM 45	00-H+B					
pH at 25 Degrees C	7.8	Std. Units	0.10	1		05/23/19 15:3	8	H6



Project:

GEN19-02-02

Pace Project No.:

12125136

QC Batch:

166790

Analysis Method:

SM 2540C (1997)

QC Batch Method:

SM 2540C (1997)

Analysis Description:

Matrix: Water

Matrix: Water

2540C Total Dissolved Solids

Associated Lab Samples:

12125136001, 12125136002

METHOD BLANK: 657391

Associated Lab Samples:

12125136001, 12125136002

Parameter

Units

Blank Result Reporting Limit

Analyzed

Qualifiers

Total Dissolved Solids

mg/L

<10.0

05/24/19 12:59 10.0

METHOD BLANK: Associated Lab Samples:

657394

12125136001, 12125136002

Blank

Reporting

Result

Limit

Qualifiers Analyzed

Total Dissolved Solids

Units mg/L

Units

<10.0

10.0 05/24/19 12:59

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Total Dissolved Solids

mg/L

250

246

98

SAMPLE DUPLICATE: 657393

Parameter

12125136001 Result

Dup Result

RPD

Max RPD

80-120

Qualifiers

Total Dissolved Solids

Units mg/L

308

312

5



Project:

GEN19-02-02

Pace Project No.:

12125136

QC Batch:

166674

Analysis Method:

EPA 350.1 rev.2 (1993)

Analyzed

QC Batch Method:

EPA 350.1 rev.2 (1993)

Analysis Description:

350.1 Ammonia

Associated Lab Samples:

12125136001, 12125136002

Matrix: Water

METHOD BLANK: 656952 Associated Lab Samples:

12125136001, 12125136002

Blank

Reporting Limit

Qualifiers

Parameter

Units mg/L

Result

< 0.10

05/23/19 15:57

LABORATORY CONTROL SAMPLE:

Parameter

Units

mg/L

Units

mg/L

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Nitrogen, Ammonia

Nitrogen, Ammonia

Nitrogen, Ammonia

Units mg/L

12125315001

Result

Result

< 0.040

< 0.040

10

10.2

MS

Result

10.5

10.4

102 90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

656953

MS

Spike

Conc.

Conc.

10

10

656954

MSD

Result

10.5

MS

105

104

% Rec

% Rec

Max

RPD Limits RPD Qual 90-110 10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

656956

10

10

MSD

MSD

Spike

Conc.

MS

MSD

MSD

% Rec

105

104

% Rec

Max

. Parameter

Nitrogen, Ammonia

Parameter

MŞ 12125256004 Spike

Spike Conc.

MS Result

MSD % Rec Result

10.4

% Rec

Limits

RPD

RPD Qual 90-110 0 10



Project:

GEN19-02-02

Pace Project No.:

12125136

QC Batch:

166619

Analysis Method:

SM 4500-CL E (2000 & 2011)

QC Batch Method:

SM 4500-CL E (2000 & 2011)

Analysis Description:

4500CL E Chlorine, Total Residual

Associated Lab Samples:

12125136001, 12125136002

Matrix: Water

METHOD BLANK: 656720 Associated Lab Samples:

12125136001, 12125136002

Reporting Limit

Analyzed

Qualifiers

Chlorine, Total Residual

Units mg/L

<0.020

Blank

Result

0.020 05/22/19 16:14

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

656719

Spike Conc. LCS

LCS % Rec % Rec Limits

Qualifiers

Chlorine, Total Residual

Units mg/L Result

0.095

95

80-120 H6

SAMPLE DUPLICATE: 656721

Parameter

12125136001 Result

0.1

Dup Result

RPD

Max RPD

Qualifiers

Chlorine, Total Residual

Date: 06/06/2019 12:49 PM

Units mg/L

< 0.020

<0.020

20 H6



Project:

GEN19-02-02

Pace Project No.:

12125136

QC Batch:

166808

Analysis Method:

USGS I-3765-85 (1985)

QC Batch Method:

USGS 1-3765-85 (1985)

Analysis Description:

USGS I-3765 Total Suspended Solids

METHOD BLANK: 657480

Matrix: Water

Associated Lab Samples:

Associated Lab Samples:

12125136001, 12125136002

12125136001, 12125136002

Blank Result

Reporting

Qualifiers

Parameter

Units

Limit

Analyzed

Total Suspended Solids

mg/L

<1.0

05/24/19 15:39

LABORATORY CONTROL SAMPLE:

Parameter

Spike Units Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Total Suspended Solids

mg/L

244

237

97

SAMPLE DUPLICATE: 657482

Parameter

12125342001 Result

Dup Result RPD

Max RPD

80-120

Qualifiers

Total Suspended Solids

mg/L

Units

mg/L

<1.1

<1.1

10

10

SAMPLE DUPLICATE: 657483

Units

12125396001 Result

Dup Result RPD

Max

Qualifiers

Parameter Total Suspended Solids

180

188

RPD



Project:

GEN19-02-02

Pace Project No.:

12125136

QC Batch:

166719

Analysis Method:

SM 2320B

QC Batch Method:

SM 2320B

Analysis Description:

2320B Alkalinity

METHOD BLANK:

12125136001, 12125136002

Matrix: Water

Associated Lab Samples:

Associated Lab Samples:

12125136001, 12125136002

Blank Result

Reporting Limit

Analyzed

Qualifiers

Alkalinity, Total as CaCO3

Units mg/L

<10.0

10.0 05/23/19 14:55

103

RPD

3

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

Parameter

657125

Spike Conc.

100

LCS LCS Result % Rec % Rec Limits

Qualifiers

Alkalinity, Total as CaCO3

Units mg/L

103

90-110

20

20

SAMPLE DUPLICATE: 657126

12125136001 Units Result

Dup

Result

62.6

Max RPD

Qualifiers

SAMPLE DUPLICATE: 657127

Alkalinity, Total as CaCO3

Parameter Units 12125400001 Result

Dup

RPD

Max

Alkalinity, Total as CaCO3

Date: 06/06/2019 12:49 PM

mg/L

mg/L

489

64.4

Result

493

RPD

Qualifiers



Project:

GEN19-02-02

Pace Project No.:

12125136

QC Batch:

166720

Analysis Method:

SM 2510B

QC Batch Method:

SM 2510B

Analysis Description:

Matrix: Water

2510B Specific Conductance

Associated Lab Samples:

12125136001, 12125136002

METHOD BLANK: 657128

Associated Lab Samples:

12125136001, 12125136002

Blank Result

Reporting Limit

Analyzed

Qualifiers

Parameter Specific Conductance

Units umhos/cm

<10.0

05/23/19 15:09

LABORATORY CONTROL SAMPLE:

Parameter

657129

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Specific Conductance

Units umhos/cm

Units

1413

1430

101

RPD

0

90-110

SAMPLE DUPLICATE: 657130

Parameter

12125136002 Result

135

Dup Result 135 Max RPD

Qualifiers

Specific Conductance

umhos/cm

20





QUALITY CONTROL DATA

Project:

GEN19-02-02

Pace Project No.:

12125136

QC Batch:

166721

Analysis Method:

SM 4500-H+B

QC Batch Method:

SM 4500-H+B

Analysis Description:

4500H+B pH

Associated Lab Samples:

12125136001, 12125136002

LABORATORY CONTROL SAMPLE:

657131

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Parameter pH at 25 Degrees C

Units Std. Units

7

7.0

100

98-102 H6

SAMPLE DUPLICATE: 657132

Parameter

12125134003 Result

7.5

Dup Result

RPD

0

Max **RPD**

Qualifiers

pH at 25 Degrees C

Units Std. Units

7.5

10 H6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project:

GEN19-02-02

Pace Project No.:

12125136

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes

TNI - The NELAC Institute.

LABORATORIES

PASI-DUL Pace Analytical Services - Duluth

PASI-V Pace Analytical Services - Virginia

ANALYTE QUALIFIERS

H6 Analysis initiated outside of the 15 minute EPA required holding time.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

GEN19-02-02

Pace Project No.:

12125136

.ab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
2125136001	Decatur Effluent	SM 2540C (1997)	166790		
2125136002	Decatur Receiving Water	SM 2540C (1997)	166790		
2125136001	Decatur Effluent	EPA 350.1 rev.2 (1993)	166674		
2125136002	Decatur Receiving Water	EPA 350.1 rev.2 (1993)	166674		
2125136001	Decatur Effluent	SM 4500-CL E (2000 & 2011)	166619		÷
12125136002	Decatur Receiving Water	SM 4500-CL E (2000 & 2011)	166619		
2125136001	Decatur Effluent	USGS I-3765-85 (1985)	166808		
2125136002	Decatur Receiving Water	USGS I-3765-85 (1985)	166808		
12125136001	Decatur Effluent	EPA 200.7	166794	EPA 200.7	167022
12125136002	Decatur Receiving Water	EPA 200.7	166794	EPA 200.7	167022
12125136001	Decatur Effluent	SM 2320B	166719		
12125136002	Decatur Receiving Water	SM 2320B	166719		
12125136001	Decatur Effluent	SM 2510B	166720		
12125136002	Decatur Receiving Water	SM 2510B	166720		
12125136001	Decatur Effluent	SM 4500-H+B	166721		
2125136002	Decatur Receiving Water	SM 4500-H+B	166721		

Pace Avalytical

CHAIN-OF-CUSTODY / Analytical Request The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields n

Required Project Information: Report To: Cliff Jacoby Section B CLIENT: 13_3MDECATUR PM: DJT Due Date: 06/01/19

Description of the control of the co		Rate	Efflue	¥ Wa	ğ	1	2	. 0	6	°	_	5 0.	57		2		(IEM#		neste	ĕ	3i To:		ress	Denv
TEMP in C Consider Sealed Consider Sea		MGD Sec.			Information: ∓o be fified out by sampler									Decatur Effluent (pH Adjusted	Decatur Receiving Water	Decatur Effluent		wate.	Dus ValeriA1.	0846	dmiller@enersolv.com	2220 Beltline Road, Decatur AL 35601		ä
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Time - 1235

32-Flow - 4.1

W0#:12125136

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

			Flow Rate	3M Effluent pH	River Water pH	Sampling In		12	J.,	3	19	8		on.	én.		·	(\cdot, \cdot)	D	ITEM#		Requested C	Phone:	Email To:		Address.	Required C	Section A
F - 7.2	ij	?	MGD	CH	PH	Sampling information: To be fitted out by sampler	ACEDITACIONI, COMMENCAC			ander en antonomient de commune medicommente en de de destant estado indestructues de la commune de la commune							Decatur Effluent (pH Adjusted)	Decatur Receiving Water	Decatur Effluent	SAMPLE ID SAMPLE ID Construction for box. (A-Z, 0-9 i, -) Sample the rouse be unique Trans Char		Requested Due Dalm/TAT:	256-350-0846 Fax	dmiller@enersolv.com	2220 Belline Road, Decatur AL 35601	SM Decayur	Required Chem information.	
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DATE Signed:									L	L		L	L					×		Alk, pH, Cond			1				l	
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Rece										T		T													A felted Violentes		-	
Custo Cook		Sealed Y/N)	1	+			SAME COMBINE													a de la constanta de la consta			10000000000000000000000000000000000000		XXXXXX		2	2
Sem (Y/N)		Intect		1	1		16															\$ 1 S	100		A. 1. 1.		-	

T.me - 1235

12 - Flow - 4.1

Enersolv Field Calibration Record - pH Measurement

For all field instruments: Calibration/Confirmation Interval - Prior to each use, but not more than daily and after all pH measurements are complete for the day. Calibration Environmental Conditions: Room temperature

Calibrated By:	TDerrick	Date:	5-21-19	Time:	0700	
pH Meter C	Calibration – Equipment	numbei	: <u>030</u>			

Calibration Verification (ICV)	7.00 pH buffer	10.00pH buffer	
Reagent ID - Pre-calibration	E681209	EF81210	
Observed pH Buffer Temp., °C	7.0	10.0	
Correction Factor (see chart)	20.3	20.2	
Corrected pH Buffer Temp. °C	-0.1	-0.1	Slope 95102%
Calibration, s.u.	20.2	20.1	

Calibration Verification (ICV)	7.00 pH buffer Acc. Range 7.0 +/- 0.1	10.00pH buffer Acc. Range 10.0+/- 0.1	
Reagent ID - After Calibration	E581601	E381603	
Calibration Verification (ICV), s.u.	7.0	10.0	14.2

pH Meter Post Calibration Check Date: 5-21-19 Time: 1440

Angles Market Visited Market	7.00 pH buffer Acc. Range 7.00+/- 0.2	10.0 pH buffer Acc. Range 10.00+/-0.2
Reagent ID	EJ81601	E581603
Post Calibration pH value	7.1	[O·J
Observed Buffer Temp., °C	20.3	20.3
Correction Factor	-0.1	-0.1
Final Buffer Temp., °C	20.2	20.2

If any client sample pH measurement was <u>less than 5.0 s.u.</u>, perform check on 4.0 pH buffer

Note: If equipment calibration fails to mee

service and tagged for repair.

4.0 Buffer Cal., if required Date/time:		NA
4.00 pH b	ouffer, Acc. Range 4.00+	·/-0.1
pH 4.00 buffer Reagent ID:		
pH 4.00 buffer value:		
Observed pH Buffer Temp., °C	Correction Factor	Final pH Buffer Temp., °C

WO#: 12125136

PM: DJT

Due Date: 06/01/19

CLIENT: 13_3MDECATUR

iken out of

Page 18 of 24

WO#: 12125136

PM: DJT

Due Date: 08/01/19

CLIENT: 13_3MDECATUR

ORIGIN ID:MDRA (25) TRENT DERRICK ENERSOLV 2220 BELTLINE ROAD SW

(256) 350-0846

SHIP DATE: 21MAY19 ACTWGT: 55.00 LB CAD: 4462872/INET4100

BILL SENDER

DECATUR, AL 35601 UNITED STATES US

TO DAN TOMS PACE ANALYTICAL SERVICES, INC. **4730 ONEOTA ST**

DULUTH MN 55807 (218) 727-6380 NN/ PO



TRK# 7752 7579 3431

WED - 22 MAY 10:30A **PRIORITY OVERNIGHT**

55807 MN-US MSP



r 🧻 Pace Analytical

Document Name: Sample Condition Upon Receipt Form Document No.

F-DUL-C-001-rev.06

Document Revised, 20Mar 2019 Page 1 of 2- 3

Issuing Authority:

Pace Duloth Minnesota Quality Office

Client Name: Upon Receipt		Project #:	WO#:12125136
Courier:]Client .	PM: DJT Due Date: 06/01/19 CLIENT: 13_3MDECATUR
racking Number: ustody Seal on Cooler/Box Present? Yes /	No Seals Intact	? □Yes ☑No	Optional: Proj. Due Date: Proj. Name:
•	Bags DNone	/	
	Type of Ice:		Temp Blank? Yes
	,		None Samples on ice, cooling process has be
	Corrected °C: 1.		Biological Tissue Frozen? Yes No Z
emp should be above freezing to 6 °C Correction Fac	,	,	s of Person Examining Contents: 5/22/17/79
f temperature is <0 °C, is there evidence of ice forma	tion? Yes []No ZNA	
Character Council Description		Comme	ents:
Chain of Custody Present?		N/A 1.	
Chain of Custody Filled Out?	Yes No	N/A 2.	
Chain of Custody Relinquished?	ØYes □No	N/A 3.	
Sampler Name and Signature on COC?	☑Yes □No	□N/A 4.	
Samples Arrived within Hold Time?	☑Yes ☐No		Fecal: Se hours >8, <24 hours >24 hours
Short Hold Time Analysis (<72 hr)? Rush Turn Around Time Requested?	✓ Yes No	N/A 6. Pt	1, KesCl
	□Yes ☑No	□N/A 7. □N/A 8. 3=	
Sufficient Volume?	, , , , , , , , , , , , , , , , , , , ,		List volume in cabilling 2 L por 57
Correct Containers Used? Pace Containers Used?	ØYes □No ØYes □No	□N/A 9.	
Containers Intact?		N/A	
Filtered Volume Received for Dissolved Tests?		□N/A 10.	
Sample Labels Match COC? —	□Yes □No		nc if sediment is visible in the dissolved containers. ample bottles were labeled, by
The same of the sa	STREET INO	□N/A 12. 5>	a dates or times were recorded
Includes Date/Time/ID/Analysis Matrix: W I All containers needing acid/base preservation properly	,	13 No	te samples needing adjustment:
preserved?	Yes No	∐N/A	
Headspace in Methyl Mercury Container	☐Yes ☐No	ØN/A 14.	
Headspace in VOA Vials (>6mm)?	□Yes □No	ØN/A 15.	
Trip Blank Present?	∏Yes □No	ZN/A 16.	
Trip Blank Custody Seals Present?	□Yes □No	ZIN/A	·
Pace Trip Blank Lot # (if purchased):			
CLIENT NOTIFICATION/RESOLUTION			Field Data Required? Yes No
Person Contacted:	ter to the transfer of the sales at the sale	Date/Tir	
Comments/Resolution: Logg Fol in S.	amples with	h collected i	End Dute/time or COC. Decatur E
nd pecatur ECT (pH Adjusted)	- logged in a	with the san	ne collected End Date/time -AP5-2
e cor Coc has Acute co & Acut	C FHM reque	sted, we do	test for these but do not enter acodes
MA	•		

ECAL WAIVER ON FILE Y N	TEA	IDEDATIBE WAAR	WED ON THE V N
PERSONALIS CHARLES 1 IN	IEIV	IPERATURE WAI	VER ON FILE Y N
Project Manager Review: AF for DDT			Date: 41-00-10
The desired	en ere oprodukt fran	er i i i i i i i i i i i i i i i i i i i	Date: 5-23-19 If be sent to the North Cartifica DEPNR Condition Office (i.e. o

Con August direct	Document Name: Sample Condition Upon Receipt Form	Document Revised: 20Mar 2019 Ar 5-23
/ Pace Analytical	Document No.: F-DUL-C-001-rev.06	Issuing Authority: Pace Duluth Minnesota Quality Office

Sample Condition	Client Name:			Project (#:	
Upon Receipt			. p			12.125136
Courier:	Fed Ex UPS	USPS Other:		lient		AP 5-23-19
Tracking Number:			,			
Custody Seal on Cool	er/Box Present? Yes N	lo Seals	Intact?	Yes	□No	Optional: Proj. Due Date: Proj. Name:
Packing Material:	Bubble Wrap Bubble Ba	igs 🔲 N	one	Other:		Temp Blank? Yes No
Thermometer Used:	(120481599) tto	Type of Id	ce: [Wet [Blue	None Samples on ice, cooling process has begun
Cooler Temp Read °C	: Cooler Temp Co	orrected °C	:			Biological Tissue Frozen? Yes No NA
•	re freezing to 6 °C Correction Fact	pri	_	Date an	d Initials	of Person Examining Contents:
	°C, is there evidence of ice formati]No []NA Commer	nts:
Chain of Custody Pres	sent?	□Yes	□No	□n/a	1.	
Chain of Custody Fille	ed Out?	□Yes	□No	□n/a	2.	
Chain of Custody Reli	inquished?	Yes	□No	<u></u> N/∧	3.	
Sampler Name and Si	ignature on COC?	□Yes	□No	□N/A	4.	
Samples Arrived with	in Hold Time?	□Yes	□No	□N/A	5. If F	Fecal: <8 hours >8, <24 hours >24 hours
Short Hold Time Ana	itysis (<72 hr)?	□Yes	□No	□N/A	6.	· .
Rush Turn Around Ti	me Requested?	□Yes	□No	□N/A	7.	
Sufficient Volume?		□Yes	□No	□N/A	8.	
Correct Containers U	Ised?	Yes	□No	□n/a	9.	
-Pace Containers U	Used?	Yes	No	□N/A		
Containers Intact?		Yes	□No	□n/A	10.	
Filtered Volume Reco	eived for Dissolved Tests?	□Yes	No	□N/A	11. No	ite if sediment is visible in the dissolved containers.
Sample Labels Match	1 COC?	☐Yes	□No	□n/a	12.	
	ne/ID/Analysis Matrix:					
All containers needin preserved?	ng acid/base preservation properly	□Yes	□No	□n/A	13. No	te samples needing adjustment:
Headspace in Methy	l Mercury Container	□Yes	□No	□N/A	14.	
Headspace in VOA Vi	ials (>6mm)?	□Yes	□No	□n/A	15.	
Trip Blank Present?		_	□No	□N/A	16.	
Trip Blank Custody S	eals Present?	Yes	□ino	□n/a		
Pace Trip Blank Lot #	(if purchased):					
CLIENT NOTIFICATION	ON/RESOLUTION					Field Data Required? Yes No
	Contacted:		***************************************		Date/Tir	the service of the se
Comments	Resolution: See attached	e mail	s D	an to	ms en	nailed parrin Killeausking - when
Sample was s	hipped was a custed	y seal i	7+66	tenz	ooler?	Sample volume in cubitatives was very
low. barely he	ad enough sample to in	i trate	1856	, No	1445/-	times on sample containers. Reminder
about plastic c	cooler bag. Also, ask.	ed abou	<u>+ cc</u>	c. Sta	v 1 - 1 de 1	not times listed. Durrin replied - ne sent
new COC noting	of the corrected compo	site-tin	res,	·4P	5-23	3-19
FECAL WAIVER O	-					IVER ON FILE Y N
Project Manager R	eview:					Date:

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

		ment Name:	torm	1	Page 1 of	1-2019 1-3-€	2, 6 23	17
Pace Analytical —	Sample Condition	oment No	- Cili	.	issuing Autho	prity:		
		C-001-rev.06		Pace	Duluth Minnesota		lice	
mple Condition Client Name: Upon Receipt		Project #	:		12513(•	The state of the s	
Courier: Fed Ex UPS Commercial Pace	□USPS □Other:		:	(AP 5-2	3-19		
acking Number:				90-20-10-0-10-0-10-0-10-0-10-0-10-0-10-0				
istody Seal on Cooler/Box Present? []Yes {]No Seals Int	act? Yes	□No	Optional:	Proj. Due Date:	Pr	cj. Name:	
acking Material: Bubble Wrap Bubble	Bags None	e []Other:_			Tem	p Blank?	Yes	□N
nermometer Used: Disaescovit / 12 17048159	9 Type of Ice:	□Wet □	Blue	None	Samples on	ice, cooling	process h	as begi
ooler Temp Read °C: Cooler Temp	Corrected °C:			Biolog	gical Tissue Frozer	ı? ∐Yes	∏No	
emp should be above freezing to 6 °C Correction F			initials	of Person Ex	amining Contents	s:		
temperature is ≤0 °C, is there evidence of ice form		□No □	NA					
temperature is 20°C, is there evidence of the form	ation:		Commen	its:				
Chain of Custody Present?	□Yes □	No []N/A	1.			,		
Chain of Custody Filled Out?	☐Yes ☐		2.					
Chain of Custody Relinquished?	□Yes □		3.					
Sampler Name and Signature on COC?	Yes 🗆		4.					
	□Yes □			eral: 🖂<8 hc	ours 🔲 >8, <24 hou	rs 🗆 >24 hc	ours	
amples Arrived within Hold Time?			6.	CCON [] CO III	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
hort Hold Time Analysis (<72 hr)?								
Rush Turn Around Time Requested?		No UN/A	7. 8.			•		
ufficient Volume?		No N/A						
Correct Containers Used?		NO []N/A	9.					
-Pace Containers Used?		No □N/A						
Containers Intact?		No DN/A	10.				.1	
Filtered Volume Received for Dissolved Tests?		No No		e it sedimen	t is visible in the dis	spived conta	iners.	
Sample Labels Match COC?	Yes	No □N/A	12.					
-Includes Date/Time/ID/Analysis Matrix:			13 Alai	a ramales no	nding adjustment:			
All containers needing acid/base preservation properly preserved?	′ □Yes □	No 🗆 N/A	13. NO	e sampies nei	eding adjustment:			
Headspace in Methyl Mercury Container	□Yes □	No []N/A	14.					
Headspace in VOA Vials (>6mm)?	□Yes □	No □N/A	15.					
Trip Blank Present?		No □N/A	16.				· · ·	
Trip Blank Custody Seals Present?	□Yes □	No □N/A						
Pace Trip Blank Lot # (if purchased):								
CLIENT NOTIFICATION/RESOLUTION				•	Field Data Requ	ired?	es 🔲 No	,
Person Contacted:			Date/Tin	ne:				
Comments/Resolution: pacific als	o remined	- There i			us-fody Sea	1 place	ed on	Cool
rior to shipment. He instru		nician to	make	SUVE	all contai	ท-ci-5 ต	Herma	23.1
a laboration	2 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C	ola conti	ci h.	and and	diced to	cier to	shipp) でっか
ire to be full + the contains	CA > MCNAC U	THE CHEST 1	LEL S	30C B) 11 VC	A 1 1 200 - F		4125	23
A AAAAAAA III. III. III. III. III. III.							···	
								•
		TEMPERATU						

Project Manager Review:

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Annette Panfil - RE: Decatur Sampling Event

From:

Darrin Miller dmiller@enersolv.com

To:

Dan Toms < Dan. Toms @pacelabs.com>

Date:

5/23/2019 10:26 AM

Subject:

RE: Decatur Sampling Event

Cc:

Annette Panfil < Annette. Panfil @pacelabs.com>

Attachments: SKM_C75919052308480.pdf

Dan,

Please see attached C.O.C. noting the corrected composite times.

- There was not a custody seal placed on the cooler prior to shipment
- I instructed my Technician to make sure all containers are to be full
- The containers were placed in a bag and iced prior to shipment

I apologize for the confusion,

Thanks, Darrin Miller Enersolv

From: Dan Toms [Dan.Toms@pacelabs.com] Sent: Thursday, May 23, 2019 8:44 AM

To: Darrin Miller Cc: Annette Panfil

Subject: Decatur Sampling Event

Hello Darrin,

We received the Decatur sample at the lab yesterday and the sample was received within the correct temperature range.

When the sample was shipped was there a custody seal intact on the cooler?

The sample volume in the cubitainer was very low, only about half full. We had barely enough sample to initiate the test.

There were no dates and times on the sample containers. This data should be filled out and match the COC. We did receive the Field Calibration Record. Thank you.

Remember to pack the samples in the large plastic cooler bag to ensure that water doesn't escape from the cooler during shipment. If there is some leakage from the cooler the shipping company will not deliver the shipment. This may have been done yesterday, but is a reminder.

The COC Start and End times list 07:00 until 12:30. Is that correct? If so, why sample longer than the 24 hours?

Best regards,

Dan Toms **Bioassay Supervisor** Pace Analytical Services, LLC 4730 Oneota Street Duluth, MN 55807 218-336-2120 | 218-727-6380 www.pacelabs.com

APPENDIX D

Reference Toxicity Testing Data Packs

Pace Analytical Precision of NaCl Acute Reference Toxicant Testing for Ceriodaphnia dubia

Date	LC ₅₀ (g/L)	Mean (g/L)	SD	CV (%)	Lower Limit (g/L)	Upper Limit (g/L)
01/31/18	2.20		·			
02/06/18	1.83	2.02				·
02/21/18	1.77	1.93	0.23	12.0	1.47	2.40
03/06/18	2.50	2.08	0.34	16.4	1.39	2.76
03/20/18	2.10	2.08	0.30	14.2	1.49	2.67
04/18/18	1.67	2.01	0.31	15.6	1.39	2.64
04/25/18	1.70	1.97	0.31	15.7	1.35	2.59
05/01/18	2.33	2.01	0.31	15.6	1.39	2.64
06/12/18	2.34	2.05	0.31	15.3	1.42	2.67
07/18/18	1.83	2.03	0.30	15.0	1.42	2.63
08/08/18	1.89	2.01	0.29	14.4	1.43	2.60
11/28/18	1.68	1.99	0.29	14.8	1.40	2.57
03/20/19	1.83	1.97	0.28	14.4	1.41	2.54
04/17/19	1.74	1.96	0.28	14.3	1.40	2.52
05/09/19	1.77	1.95	0.27	14.1	1.40	2.49
05/22/19	1.71	1.93	0.27	14.1	1.39	2.47

Organism Source - ABS

C:\STATIS~1\SPEARM~1.EXE WOULD YOU LIKE THE AUTOMATIC TRIM CALCULATION(Y/N)? DATE: 05/22/19 TOXICANT : NaCl SPECIES: C.dubia DURATION: 48 H TEST NUMBER: 2 Number **Mortalities** RAY DATA: Concentration (g/L) .00 Exposed 20 20 2 19 20 .63 1.25 20 20 2.50 5.00 10.00 20 20 SPEARMAN-KARBER TRIM: .00× SPEARMAN-KARBER ESTIMATES: LC50: 95% LOWER CONFIDENCE: 95% UPPER CONFIDENCE: 1.71 1.52 1.92 WOULD YOU LIKE TO HAVE A COPY SENT TO THE PRINTERCY/N>?

Pace Analytical Services, LLC

	Client: Pace RTT
	Pace Project #: N/A
Γest:	Ceriodaphnia dubia Acute Reference Toxicant Test
	Test Initiation Date: May 22, 2019
	Test Termination Date: May 24, 2019

Pace Analytica
Client Color Code: Yellow

ENVIRONMENTAL SAMPLE TEST INFORMATION

Date: May 22, 2019
Client: Not Applicable
Pace Project #: Not Applicable
Dilution Water: MHRW
Test Chamber: 1 oz plastic
Food: None
Required Testing Temperature: 24-26 °C
C dubia Rath # 5
Test Organism(s)/Age: Ceriodaphnia dubia/<24 hours old / Pace Analytical Culture
Comments:

TOXICITY TEST RENEWAL FORM

CLIENT: Pace RTT PACE PROJECT #: Not Applicable							
_	Acute Toxicity		ITTIATION DATE: May 22, 2019 ERMINATION DATE: May 24, 2019				
ORGAN	NISM: <u>C. dubia</u>	IESI IE	ERMINATION DATE: N	шу 2-1, 2017			
	TEST DAY	0 Test Initiation	1	2			
	DATE	5/22/19	5/23/19	5/24/19			
	ime of Renewal/Reading (±1 hour of initiation) Init	1516	1516	1545			
	Time of Feeding / Food IDs/ Init	180350 180095 0955 CJA	Not Applicable	Not Applicable			
	DILUTION WATER	mhrw 19-027	NA	NIA			
	INITIALS	ARR	APR	ALB			

INITIAL CHEMISTRIES

CLIENT:	Pace RTT	Pace Project	Pace Project #: Not Applicable					
TEST: Acute Reference Test		TEST INIT	TEST INITIATION DATE: May 22, 2019					
ORGANISM(S): C. dubia		TEST TERM	TEST TERMINATION DATE: May 24, 2019					
		Date/Ti	me/Initials	·				
	1310 MH 5 2219			·				
CONCENTRAT	FION: Secondary Conti							
pH (sa)	7.26							
DO (mg/L)	7.3							
Temp (°C)	24.3							
Cond (umhos/em)	120							
CONCENTRAT	FION: Primary Control	- MHRW						
pH (su)	7.91							
DO (mg/L)	8.2							
Temp (°C)	24.3							
Cond (usukos/cm)	300							
CONCENTRA	FION: 0.625 g/L NaC							
pH (su)	7.75							
DO (mg/L)	8.3							
Temp (°C)	25.0							
Cond (umhos/cm)	1547							
CONCENTRA	TION: 1.25 g/L NaCl							
pH (su)	7.87	· · · · · · · · · · · · · · · · · · ·						
DO (rage/L)	8.3		X					
Temp (°C)	24.3			,				
Cond (umhos/em)								
CONCENTRA	TION: 2.5 g/L NaCl							
pH (su)	7.87							
DO (mg/L)	8.3							
Temp (°C)	24.4		•					
Cond (umbos/cm)								
	TION: 5 g/ L NaCl							
bH (eti)	7.82		,	·				
DO (mg/L)	8.3							
Temp (C)	1 24.4		-					
Cond (umbos/cm)								
	TION: 10 g/L NaCl							
pH (su)	7.73		· · · · · · · · · · · · · · · · · · ·	1				
DO (mg/L)	10.4							
Temp (°C)	24.4							
Cond (umhos/cm)	18590	/						

Page 4 of 7
Last printed 5/22/2019 8:56:00 AM

FINAL CHEMISTRIES

CLIENT: Not Applicable	Pace Project #: Not Applicable
TEST: Acute Reference Toxicity	TEST INITIATION DATE: May 22, 2019
ORGANISM: C. dubia	TEST TERMINATION DATE: May 24, 2019

	Date/Time/Initials									
	5/23/19 AAL 1505	5/24/19	APR 1708							
CONCENTRATION: S	Secondary Control – Treated Tap V	Vater								
Replicate	From Monitoring Chamber	A	В	С	D					
pH (su)	7.97	7.82	7.90	7.78	7.84					
DO (mg/L)	8.1	8.1	g, 3	812	8.2					
Temp (°C)	24.4	25.2	25.2	25.2	25.{					
	Primary Control - MHRW				2000					
Replicate	From Monitoring Chamber	A.	В	С	D					
pH (su)	8.07	8.03	8.02	7.96	8.00					
DO (mg/L)	8.2	8.2	8. Z	8.2	8,2					
Temp (°C)	24,5	25.2	15.1	25.1	25.1					
CONCENTRATION: (•								
Replicate	From Monitoring Chamber	A	<u>B</u>	С	D					
pH (su)	8.06	8.04	7.99	7.98 -	7,99					
DO (mg/L)	8.2	8.2	8.2	8,2	8.2					
Temp (°C)	24.5	25.0	75.0	25.0	249					
CONCENTRATION:		4 "								
Replicate	From Monitoring Chamber	Α	В	C	D					
pH (su)	8.06	8.07	8.00	7.97	7.99					
DO (mg/L)	8.2	8.2	8.2	8.2	8.2					
Temp (°C)	24,3	25.0	24.9	241.9	24.8					
CONCENTRATION: 2				<u></u>						
Replicate	From Monitoring Chamber	A	В	C	D					
pH (su)	8.03	8.03	8.03	8,01	8.01					
DO (mg/L)	8.2	8.2	8.2	8,2	8,2					
Temp (°C)	24,4	24.9	25.0	25.0	24.9					
CONCENTRATION:		,								
Replicate	From Monitoring Chamber	A	В	C	D					
pH (su)	7.98									
DO (mg/L)	8.2	Deno	2	^	LB 8124/19					
Temp (°C)	24.5									
CONCENTRATION: 1		r		<u></u>						
Replicate	From Monitoring Chamber	A	B	C	D					
pH (su)	7.93		-		XI Q =1					
DO (mg/L)	8.2	Dead		<u> </u>	8LB 5124119					
Temp (°C)	24.5									

ACUTE TOXICITY DATA LOG

Client: Pace RTT

Project #: Not Applicable

Test: Acute Reference Test

Template ID: C

Test Initiation Date: May 22, 2019

Investigator: Toms

Test Duration: 48 hour

Renewal: None

Species: Ceriodaphnia dubia

Age: <24 Hour

No. Animals/No. Reps: 5/4

Sources of Animals: Pace Analytical

Dilution Water/Control: MHRW/MHRW

Test Volume: 20 mL

Required Testing Test Temp: 24-26 °C

DHHMUDIY Survival Readings (Randomized): (# alive out of # exposed from above unless shown otherwise) 48 Hour 24 Hour ROW Column ID Column ID D В D В Ô 7 5 6 5 4 3 5 2 D 1 ALB 5124119 ARR 5/23/19 Comments:

ACUTE TOXICITY DATA LOG

Client: Not Applicable
Project #: Not Applicable
Test: Acute Reference Test
Test Initiation Date: May 22, 2019
Investigator: Toms
Test Duration: 48 hour
Renewal: None

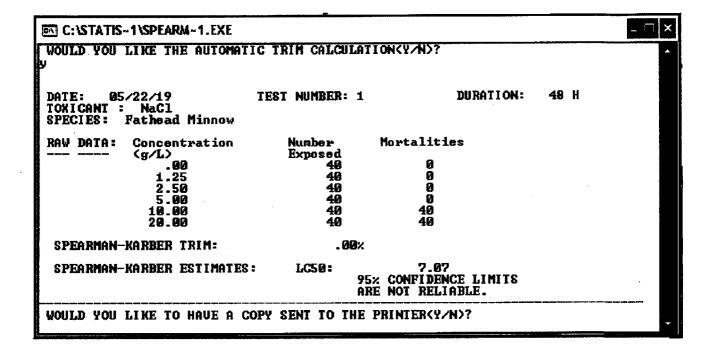
Species: Ceriodaphnia dubia
Age: <24 Hour
No. Animals/No. Reps: 5/4
Sources of Animals: Pace Analytical
Dilution Water/Control: MHRW/MHRW
Test Volume: 20 mL
Required Testing Temp: 24-26 °C
Minimum Control Survival ≥ 90%: (Yes) No)

	Survival Readings: (# alive out of # exposed from above unless shown otherwise)									
Concentration	A	Rep	Hour licate C	D		A		Hour licate C	D	
Treated Tap Water (1)	5	5	5	5		5	4	5	5	
MHRW(2)	5	5	5	5		5	5	5	5	
0.625 g/L (3)	5 4	5	5	5		5	5	5	5_	
1.25 g/L (4)	5	5	4	5		4	5	4	5	
2.5 g/L (5)	5	4	5	5		1	0	0	\Diamond	
5 g/L (6)	0	0	0	0		0	Ö	0	0	
10 g/L (7)	0	0	0	0		0	0	0	0	
			De	ciphered By	y: APR	6/5	119			
Comments:										

Pace Analytical Precision of NaCl Acute Reference Toxicant Testing for *Pimephales promelas* (Fathead Minnows) At 25° C for 48 hours

Date	LC ₅₀ (g/L)	Mean (g/L)	SD	CV (%)	Lower Limit (g/L)	Upper Limit (g/L)
04/25/18	7.07					
06/26/18	7.07	7.07				
07/17/18	7.07	7.07	0.00	0.0	7.07	7.07
07/25/18	7.32	7.13	0.13	1.8	6.88	7.38
08/08/18	6.95	7.10	0.14	1.9	6.82	7.37
09/25/19	7.07	7.09	0.12	1.7	6.85	7.34
11/28/18	6.95	7.07	0.12	1.7	6.82	7.32
1/25/19	7.07	7.07	0.11	1.6	6.84	7.30
03/20/19	7.32	7.10	0.14	1.9	6.83	7.37
04/17/19	7.07	7.10	0.13	1.8	6.84	7.35
05/22/19	7.07	7.09	0.12	1.7	6.85	7.34

Organism Source - Aquatox



Pace Analytical Services, LLC

Client:	Pace RTT
Pace Proje	ct #:
Test: FF	IM Acute Reference Toxicant Test
Test Initia	tion Date: May 22, 2019
	ination Date: May 24, 2019

Page 1 of 6
Last printed 5/22/2019 10:19:00 AM

ENVIRONMENTAL SAMPLE TEST INFORMATION

Date: May 22, 2019
Client: Pace RTT
Pace Project #: Not Applicable
Dilution Water: MHRW
Test Chamber: 250 mL plastic
Food: None
Required Testing Temperature: 24-26
Fathead Minnow Bath # 5
Test Organism(s)/Age/Source/: Fathead Minnow / 8 days / Aquatox
Comments:
Page 4 was re-printed due to formatting error
Page 4 was re-printed due to formatting error found when taking chemistry readings XXXX 5/22/19
7

TOXICITY TEST RENEWAL FORM

CLIENT:	Pace RTT	PACE PROJECT #: Not Applicable
TEST:	Acute Toxicity	TEST INITIATION DATE: May 22, 2019
ORGANISM:	Fathead Minnow	TEST TERMINATION DATE: May 24, 2019

TEST DAY	O Test Initiation	1	2
DATE	5/22/19	5/13/19	5 24 19
Time of Renewal/Reading (±1 hour of initiation)	1527	1455	1545
TIME OF FEEDING	1215	Not Applicable	NA
DILUTION WATER	MHRW 19-027	Not Applicable	MHRW P/P
INITIALS	SEMEN	CJA	ALB

Page 3 of 6
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INITIAL CHEMISTRIES

CLIENT: Pace RTT	Pace Project #: Not Applicable
TEST: Acute Reference Test	TEST INITIATION DATE: May 22, 2019
ORGANISM(S): Fathead Minnow	TEST TERMINATION DATE: May 24, 2019

	Date/Time/Initials								
	5/22/19 MANK 1310	Not Applicable	Not Applicable	Not Applicable					
CONCENTRA	TION: Secondary Con	itrol - Treated Tap W	ater						
pH (su)	7.26	APP							
DO (mg/L)	7.3	(12,							
Temp (°C)	24.3								
Cond (umhos/cm)	120								
CONCENTRA	TION: Primary Contr	ol - MHRW							
pH (su)	7.91								
DO (mg/L)	8.7								
Temp (°C)	24.3								
Cond (umhos/cm)	300		\						
CONCENTRA	TION: 1.25 g/L NaCl								
pH (su)	7.87								
DO (mg/L)	8.3								
Temp (°C)	24.3								
Cond (umhos/em)	2330			/					
CONCENTRA	TION: 2.5 g/L NaCl								
pH (su)	7.87								
DO (mg/L)	8.3			\/					
Temp (°C)	24.4	·	·	Χ					
Cond (umhos/cm)	5120			/\					
CONCENTRA	TION: 5 g/L NaCl		/						
pH (su)	7.82								
·DO (mg/L)	8.3								
Temp (°C)	24.4								
Cond (umbos/cm)	9570								
CONCENTRA	TION: 10 g/L NaCl								
pH (su)	7.73								
DO (mg/L)	8.4								
Temp (°C)	24.4								
Cond (umhos/em)	18590								
CONCENTRA	TION: 20 g/L NaCl								
pH (su)	7.58								
DO (mg/L)	9.4								
Temp (°C)	24,4		1						
Cond (umhos/cm)	35000		1/						

Page 4 of 6
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FINAL CHEMISTRIES

LIENT:	Pace	RTT					Pace	Project	#: Not App	ncable	
		Reference Toxicity TEST INITIATION DATE: May 22, 2019							2019		
	Fathead Minnow						TES	TEST TERMINATION DATE: May 24, 2019			
<u> </u>		Date/Time/Initials									
Į.	SIZZIM	141	1	G	1241	9			Not Appl	icable	Not Applicable
					+++0]	Troot	od Ta	Wate	r		
CONCENTR		B Sec	C	D	A	В	C	D 1	A		Α /
	A 7.75							7.93			
pH (su) DO (mg/L)									1		7
									1		
Temp (°C)								17.51	$\overline{}$		
CONCENTE		N: Pr	mary C	D	A A	В	C	D	A		.1
Replicate	A 7.86 7			_							
DO (mg/L)											
Temp (°C)						15.7	15.3	25. 4		\	
CONCENTI					A	В	С	D	A	\	/A
Replicate	A	B	C 7.00							 	
pH (su)	7.87	+.14	7.87	1.78	0,00	7.11				$\overline{}$	
DO (mg/L)		7.8	7.6	7,7	1,8	4.8		7.8			/
Temp (°C)			Z5;0		<u> </u>	25.7	25.6	25.[]			<u> </u>
CONCENT							С	D.	A		/ A
Replicate	A	В	C	D	A	B 70/	8,40		Λ.	- 	/
pH (su)	7.85	7.8 <u>(</u>	7.94	4.17	7.76					. \	V
DO (mg/L)			_				7.8			<u></u>	Λ
Temp (°C)	25.2	75.0	724.9	Z4.7	15.6	25.5	25.4	25.1		/	
CONCENT	RATIO										1
Replicate	A	В	С	D	A	В	C	D	A	` /-	
pH (su)											
DO (mg/L)	7.8		8.0		7.8		7.8			_/_	
Temp (°C)	75.0	24.9	24.8	74.9	25.6	25.4	25.3	25.4		_/	
CONCENT	RATIO	N: 10) g/L l	NaCl							
Replicate	Α	В	С	D	Α	В	С	D	A	`/	*
pH (su)	7.85	7.83	7.78	7.8	7.88	7.86		700			
DO (mg/L)	7.8	7.7	7.6		7.8	7.6		51411	/		
Temp (°C)		24.9	_		25.3	25.5	_				
CONCENT	RATIC	N: 2								A.	T A
Replicate	Α	В	С	D	A	В	C	D	- / - /	4	\ \ \
pH (su)	7.58	_			<u> </u>			7	- /		
DO (mg/L)	6.9	6.9	6.8	6.9	A	_ \$ ()ead	124119	_/		
Temp (°C)	24.6	24.9	24.6	24.7	<u> </u>	\leq			/		

ACUTE TOXICITY DATA LOG

Client: Pace RTT

Project #: Not Applicable

Test: Acute Reference Test

Template ID:

Test Initiation Date: May 22, 2019

Investigator: Toms

Test Duration: 96 hour

Renewal: Other @ 48 H

Species: Fathead Minnow
Age: 8 day
No. Animals/No. Reps: 10/4
Sources of Animals: Aquatox
Dilution Water/Control: MHRW/TT
Test Volume: 200 mL
Required Testing Temperature: 24-26 °C
Minimum Control Survival ≥ 90%: (Yes) No)

Concentration	Survival Readings: (# alive out of # exposed from above unless shown otherwise)							
	24 Hour Replicate A B C D	48 Hour Replicate A B C D	72 Hour Replicate A B C D	96 Hour Replicate A B C D				
Treated Tap Water	10 10 10 10	10 10 10 10	Not Applicable	Not Applicable				
MHRW	10 10 10 10	01010	Not Applicable	Not Applicable				
1.25 g/L	10 10 10 10	10 10 10 10	Not Applicable	Not Applicable				
2.5 g/L	10 10 10 10	10 10 10 10	Not Applicable	Not Applicable				
5 g/L	10 10 10 10	10 10 10 10	Not Applicable	Not Applicable				
10 g/L	1100	0000	Not Applicable	Not Applicable				
20 g/L	0000	0000	Not Applicable	Not Applicable				
	5/13/19 CIA 145	5124119 1531 ALB	Dated Initials	Libert Totales				
Comments:								
100000000000000000000000000000000000000								

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA. GEORGIA 30303-8960

JUN 1 3 2019

UNITED PARCEL SERVICE

Mr. James C. Banks. PhD Environmental. Health and Safety Manager Film and Materials Resource Division 3M Company 1400 State Docks Road Decatur, Alabama 35601

Re: Notice of Inspection

Toxic Substances Control Act

Dear Mr. Banks:

This letter serves to confirm the June 11, 2019, telephone conversation between you and Mr. Verne George with the U.S. Environmental Protection Agency, Region 4. The details regarding the EPA's desire to conduct an inspection at 3M Company (the Facility) located in Decatur, Alabama were discussed during the call. As indicated, the inspection will begin at 9:00 a.m. on July 16, 2019, through July 18, 2019. Where necessary and agreeable to both parties, the EPA representative will take an offsite lunch break and resume inspection activities within a reasonable time (30 to 45 minutes).

The inspection will be conducted pursuant to Section 11 of the Toxic Substances Control Act (TSCA). 15 U.S.C. § 2610, to determine compliance with TSCA Sections 4, 5, 8, 12 and 13. As applicable, among the specific issues to be addressed are the chemical substances or mixtures manufactured, imported, exported, processed, stored, used, or disposed of in relation to or associated with your establishments, facilities or other premises. The inspector will (1) review files, data and correspondence that are either required to be maintained by TSCA or applicable to the chemical substances or mixtures within your facilities and (2) interview personnel if necessary.

To facilitate the inspection, the EPA requests that you have available for the inspector to review at the time of the inspection the information identified in the enclosed document, "Information to be Prepared by the Facility for Review During the TSCA Inspection." The EPA prefers for this information to be presented electronically on a USB flash drive with the information requested in Sections A – II as separate Adobe portable file (pdf) files, searchable using optical character recognition (OCR), and the lists I – 4 identified in Sections I – L as separate Microsoft Excel Workbook files. You may print any document for clarity. Please do not mail, fax, email or otherwise send this information to the EPA unless specifically requested by the inspector.

TSCA Confidential Business Information (CBI) Claims

Under Section 14(a) of TSCA, the Facility may claim information submitted to the EPA under TSCA as CBI. TSCA CBI claims must be asserted and substantiated concurrently with the submission of the

information, except for those types of information exempt under TSCA Section 14(c)(2). There are several procedural requirements that must be followed when asserting CBI claims in TSCA submissions. Guidance for what to include in TSCA CBI substantiations can be found at: https://www.epa.gov/tsca-cbi/what-include-cbi-substantiations#informationexempt.

During the inspection and potentially after the inspection the inspector will most likely request that the Facility send certain information to the EPA. If requested, you must follow the directions below in submitting any such information.

If during the inspection or after the inspection <u>some or all</u> of the information requested by the inspector to be sent to the EPA is claimed by the Facility to be TSCA CBI:

- Mail the applicable information to **Mr. Gopal Timsina** at the letterhead address. The EPA recommends that the information be mailed in a manner that can be tracked by the Facility.
- To ensure confidentiality, the information should be placed in an inner envelop labeled "Confidential To Be Opened by Addressee Only." The inner envelop should be placed in an outer envelope for mailing.
- If the Facility is unable to provide the identity of a chemical substance or mixture because of a domestic and/or foreign supplier or customer CBI claim, please be prepared to identify those products at the time of the inspection.
- You must follow the above directions in submitting information claimed to be TSCA CBI to ensure that the security and confidentiality of the information is maintained.

If during the inspection or after the inspection <u>none</u> of the information requested by the inspector to be sent to the EPA is claimed to be TSCA CBI:

- Send the applicable information to **Mr. Verne George** at the letterhead address.

The EPA developed an information sheet entitled "U.S. EPA Small Business Resources" to help small businesses understand federal and state environmental laws and rights under the Small Business Regulatory Enforcement Fairness Act. The information sheet can be found on the internet at: www2.epa.gov/sites/production/files/2017-06/documents/smallbusinessinfo.pdf. If you have any questions, please contact Mr. Verne George of the EPA Region 4 staff at (404) 562-8988 or via email at George.verne @epa.gov.

Sincerely.

Kimberly L. Bingham

Chief

Chemical Safety Section

Enclosure

Information to be Prepared by the Facility for Review During the TSCA Inspection

Facility Name:

3M Company

Location (City, State): Decatur, Alabama

A. General Company Information

- 1. Brief company history including ownership and nature of business.
- 2. Corporate structure including domestic and foreign parent companies.
- 3. Facilities owned by the company located in the USA including subsidiaries (name and location).
- 4. Number of employees at the Facility and corporate level.
- 5. The 2015 gross annual sales range for the Facility and corporate level (less than \$4 million, \$4 million to \$40 million or greater than \$40 million).

B. Process Flow Diagrams

- 1. For each chemical that is manufactured or processed, make available a flow diagram (drawing/sketch) listing each raw material input and the resulting products (by Chemical Abstracts Service Registry Number (CASRN)) for each step. The flow diagrams should also include, if applicable, intermediates, byproducts, or catalysts.
- 2. For waste streams, intermediates or byproducts generated during the production processes, indicate the steps associated with the disposition of the on-site/off-site uses as it relates to marketing. recycling, or disposal.

C. TSCA Section 4 Records (Last three years)

- 1. For Chemical substances that were manufactured or imported and subject to a TSCA Section 4 Test rule, make available the Letters of intent to conduct testing or Requests for exemption from testing.
- 2. If applicable, provide proof of data submission.

D. TSCA Section 5(a)(1) and (2) Records (Last three years)

- 1. Bonafide Intents submitted.
- 2. Premanufacture Notices (PMNs), Low Volume Exemptions, Test Marketing Exemptions and Polymer Exemptions along with any EPA responses.
- 3. Significant New Use Rule Notices along with any EPA responses.
- 4. Notices of Commencements and associated production records.

E. TSCA Section 5(e) and (f) Records (Last three years)

1. TSCA Section 5(e)/(f) Consent Orders along with the applicable records.

F. TSCA Section 8(a) and 8(b) Records (Last three years)

- 1. Preliminary Assessment Information Rule (PAIR) information.
- 2. The 2016 Chemical Data Report (CDR) along with the applicable production records.

G. TSCA Section 8(c), (d), and (e) Records (Last five years)

1. Documentation of allegations of significant adverse reactions to health or the environment alleged to have been caused by the chemical substances/mixtures that were manufactured, imported, processed or distributed by the Facility.

- 2. A list of any and all TSCA Section 8(d) health and safety studies submitted to EPA and copies of any and all health and safety information known by the Facility that were not submitted to EPA.
- 3. Documentation pertaining to the submission of substantial risk data associated with the chemical substances that were manufactured, imported, processed or distributed by the facility.

H. Corporate Policies and Procedures

1. Facility and/or corporate policies developed to ensure compliance with TSCA Sections 4, 5, 8, 12 and 13.

I. List #1:

For chemical substances that were manufactured by the Facility in 2015, 2018 and 2019 include the following:

- 1. Accepted chemical name(s):
- 2. CASRN or the EPA accession number:
- 3. Production date:
- 4. Volume produced (a) annually if by continuous process, or (b) per batch and batch number identification number used to track each batch:
- 5. Include the percentage of each chemical component if applicable; and
- 6. Indicate if the chemical is a byproduct, is an impurity, or is an intermediate. If you identify a chemical as a byproduct or an intermediate, indicate in the process diagrams (See above **B- Process flow diagrams**) how it is produced.

For chemical substances imported from a foreign country in 2015 and 2018, include the following:

- 1. Accepted chemical name(s):
- 2. CASRN or the EPA accession number:
- 3. Percentage of each chemical substance in the mixture:
- 4. Import date:
- 5. Quantity imported per shipment:
- 6. Identification number used to track each shipment;
- 7. Safety Data Sheet for each chemical substance/mixture imported; and
- 8. The name of the supplier and the country.

J. List #2

For chemical substances and mixtures purchased from domestic suppliers (U. S. distributors) and used at the Facility in manufacturing or processing activities between January 1, 2018, and June 30, 2019, include the following information for each chemical substance/mixture:

- 1. Accepted chemical name(s) of each component:
- 2. CASRN or the EPA accession number:
- 3. Supplier name and location (address); and
- 4. If a CASRN is proprietary, provide a Safety Data Sheet from the supplier.

K. List #3

For chemical substances and mixtures exported from the United States by the Facility during the period covering January 1, 2017, through June 30, 2019, include the following:

- 1. Accepted chemical name of each component:
- 2. CASRN or the EPA accession number of each component:

- 3. The percentage of each component:
- 4. Note if the chemical substance is a byproduct, impurity or non-isolated:
- 5. Export date:
- 6. The destination country; and
- 7. A copy of any export notification(s) required under TSCA 12(b).

L. List #4

For R&D chemicals manufactured or imported at the Facility during the past three years, include the:

- 1. Names and addresses of those who received the R&D chemical:
- 2. Amount distributed per shipment to each addressee: and
- 3. Make available a copy of the safety data sheet, shipping label and any written notice provided to the customers for each R&D chemical.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

AUG 1 2019

UNITED PARCEL SERVICE

Jamie Banks
EHS Manager
3M Decatur
1400 State Docks Road
Decatur, Alabama 35601

Dear Mr. Banks:

On June 24-26, the Environmental Protection Agency Region 4 conducted a multimedia inspection of 3M Decatur located in Decatur, Alabama. We have enclosed the draft inspection report generated by the Region 4 Air Enforcement Branch for this inspection (Enclosure A) and would like to offer you the opportunity to review the report for any information that 3M Decatur would consider to be confidential business information, pursuant to the EPA's rules at 40 C.F.R. Part 2. See Enclosure B for confidential business information assertion and substantiation requirements. Please note that if the EPA receives a Freedom of Information Act request for the information you claim to be confidential or wants to determine whether such information is entitled confidential treatment, you will be required to bear the burden of substantiating your confidential claim. See 40 CFR §2.204(a) and (d).

Please respond within seven (7) days of receipt of this letter and indicate whether or not the company wishes to claim any part of the report as confidential. Provide the appropriate detail needed to discern what specific information is the subject of any claim to the address below:

Air Enforcement Branch
U.S. Environmental Protection Agency Region 4
61 Forsyth Street SW
Atlanta, GA 30303
Attn: Steve Rieck (AEB)

If you have any questions, you can contact me at (404) 562-9177, or by email at rieck.stephen@epa.gov.

Sincerely.

Steve Rieck

Environmental Scientist Air Enforcement Branch

Enclosures (2)

cc: Michelle Howell, 3M Decatur

ENCLOSURE A DRAFT INSPECTION REPORT MAY CONTAIN CONFIDENTIAL BUSINESS INFORMATION

United States Environmental Protection (EPA) Agency Region 4 Air Enforcement Branch Draft Inspection Report

I. GENERAL INFORMATION

Facility Name: 3M Decatur

Location (Address): 1400 State Docks Road, Decatur, Alabama

Inspection Date: June 24-26, 2019

Type of Inspection:
Multimedia Inspection

ICIS-Air Number: AL0110300009-2019

EPA Investigator(s)/Inspector(s) (Air inspection team):

1. Steve Rieck, Environmental Scientist

2. Mario Zuniga, Environmental Engineer

State/Local Investigator(s)/Inspector(s):

1. James Adams, ADEM

Person(s) Contacted at Facility (Name and Title):

- 1. Jamie Banks, EHS Manager
- 2. Michelle Howell, Decatur Site Manager
- 3. Stacee Bland, Environmental Engineer
- 4. Andrew Willing, Environmental Specialist;

Report Prepared by: Steve Rieck

Project Name: 3M Decatur

II. FACILITY INFORMATION

A. Facility and Permit Information

F	Facility and Permit Information	Comments	
1.	Type of facility (e.g., chemical plant, refinery, cement manufacturer, etc.).	Plastic materials manufacturing	
2.	Air permit number(s) and type of permit (e.g., Title V, PSD, Synthetic Minor, etc.).	Air Permit #712-0009	
3.	Air permit issuance date.	March 10, 2015	
4.	Air permit expiration date.	March 9, 2020	
5.	Facility classification (Major, Synthetic Minor/Conditional Major, Minor).	Major	
6.	Major source pollutants (if applicable).	The facility is a major source for Hazardous Air Pollutants.	
7.	Applicable regulations (e.g., State Implementation Plan, MACT Subpart FFFF, NSPS Subpart EEEE, etc.).	The air inspection team focused on processes associated with the Building 3 and 4 reactor systems and process vents. This system is subject to 40 CFR Part 63, Subpart FFFF.	
8.	Types of air emission points (e.g., tanks, process vents, boilers, etc.).	Process vents connected to air pollution controls.	
9.	Types of air pollution control equipment (e.g., baghouse, scrubber, afterburner, etc.).	Carbon bed adsorption with Fourier Transform Infrared (FTIR) spectroscopy.	

B. Process Description (provide narrative or attach description provided by the company or excerpts from the permit)

The 3M Decatur facility was constructed in 1961 and employs about 950 people. 3M operates a film manufacturing plant and a materials manufacturing plant. The materials plant consists of batch chemical production, fine chemical production, and adhesives production. The facility makes intermediate products which are sent or sold to other sites to manufacture and package

Project Name: 3M Decatur

the final products. The facility has recently requested permitting to install carbon bed adsorption on their 340 process and their 470/471 process, both processes at the materials plant.

EPA Region 4 inspectors conducted an announced, multimedia inspection of the facility. The air portion of the inspection focused on the 340 and 470/471 processes and controls and is the subject of this report. At the time of the inspection, the 470/471 process was operating with installed carbon bed adsorption. The 340 process was not operating, as 3M was installing the carbon bed adsorption system.

III. INSPECTION ACTIVITIES

	Activity	Yes No N/A	Comments
	Opening Meeting		
1.	Date and time entered the facility.	Y	EPA Region 4 inspectors arrived at the facility at 12:47 CST on June 24, 2019.
2.	Credentials presented to facility personnel (include name and title).	Y	Credentials were presented to Mr. Banks.
3.	Conducted an opening meeting to explain the purpose and objectives of the inspection.	Y	EPA inspectors discussed objectives of the multimedia inspection. 3M provided a process and regulatory overview.
4.	Discussed safety issues.	Y	EPA inspectors watched a video and discussed site-specific safety issues.
5.	Discussed which records to be reviewed.	Y	EPA inspectors requested and reviewed records associated with 3M's regulatory requirements.
6.	Discussed the facility walk- through and the areas to be observed in the facility.	Y	EPA air inspectors focused on the 340 and 470/471 processes and controls. Mr. Zuniga of the inspection team also looked at the facility's boilers and associated permit requirements.
7.	Discussed facility policy regarding photographs or video (if applicable).	Y	Inspectors discussed facility policy regarding videos and photographs.

Project Name: 3M Decatur

Activity	Yes No N/A	Comments
8. Discussed the use of the infrared camera, TVA, PID, and any other equipment.	Y	Inspectors discussed the use of the GF306 Optical Gas Imaging (OGI) camera. 3M indicated that they also had OGI cameras and would use them alongside the inspection team.
		The cameras are not intrinsically safe devices, preventing their use in process areas, as it would require process shutdown.
9. Discussed CBI.	Y	EPA inspectors informed the facility that they could claim CBI on information considered to be confidential, and that EPA would treat those documents in accordance with the regulations.
Records Reviewed at the Facility		
10. The types of records reviewed and the time period reviewed.	Y	EPA inspectors reviewed compliance files at the facility including: Process flow diagrams FTIR monitoring records Permit applications Boiler records

Activity	Yes No N/A	Comments
Facility Walk-Through Observations		
11. The process equipment observed and the associated operational rate observed. Provide the date and time the information was recorded by the inspector. Identify the permit limit (if applicable). An attachment may be used for a	Y	The air inspection team began with a walk-through the 340 process, located in building 3. At the time of inspection, the facility was installing carbon bed adsorption. The 340 process has not been operating since March 2019. The 340 process manufactures an intermediate surfactant product. It is a batch process and can take about one month per batch. The material produced is stored in totes or bins and used in the 470/471 process.
large amount of information.		The 470/471 process is located in building 4 and was operating during the inspection. The 470/471 process receives material from the 340 process. The material is mixed to create a final surfactant product tailored to required specifications. This product is sent to a separate facility where it is used to manufacture the final product. The air inspection team also observed operations at the #5 boiler house.

Activity	Yes No N/A	Comments
12. The type of process parametric monitoring observed and the associated value observed Provide the date and time the information was recorded by the inspector. Identify the permit limit (if applicable). An attachment may be used for a large amount of information.	N/A	
13. If process equipment or parametric monitoring equipment was not operating, state the reason by facility personnel why the equipment was not operating.	N/A	The 340 process was not operating while 3M installed carbon bed adsorption.
14. The type of air pollution control equipment, the process equipment it is controlling, and the associated parametric monitoring value observed (e.g., baghouse pressure drop, temperature, scrubber flow rate, etc.). Provide the date and time the information was recorded by the inspector.	Y	The 340 and 470/471 processes are controlled by carbon bed adsorption. Waste streams from the processes are routed through a primary and secondary carbon bed. The controls are monitored with FTIR spectroscopy (See Item 15). After the carbon beds, the waste streams are routed to process vents. 3M routes any streams that may contain solvents to the building roof level before venting.
Identify the permit limit (if applicable). An attachment may be used for a large amount of information.		

Activity	Yes No N/A	Comments
15. Continuous emissions monitoring devices and values observed. (e.g., CEMS, COMs, etc.). Provide the date and time the information was recorded by the inspector. Identify the permit limit (if applicable). An attachment may be used for a large amount of information.	Y	FTIR spectroscopy continuously analyzes and quantifies fluorochemicals after the primary and secondary carbon beds. The FTIR is operated using EPA Method 320 - Vapor Phase Organic and Inorganic Emissions by Extractive FTIR. Fluorochemicals in the waste stream do not have a regulated limit. 3M has set an action level at 0.6 ppm (specific for process 470/471), which is approximately the FTIR Level of Quantitation (LoQ). The LoQ is defined as 3 times the minimum detection level, consistent with EPA Methods. At the time of inspection, the facility had been running the 470/471 process for approximately an hour. FTIR did not indicate any concentrations exceeding the LoQ.
16. If air pollution control equipment was not operating, state the reason by facility personnel why the equipment was not operating.	N/A	
17. Capture and collection system (enclosures and hoods) observations, if applicable (e.g., the magnitude and duration of emission escaping capture from the hood).	N/A	

Activity	Yes No N/A	Comments
18. Ductwork transferring the emissions to the air pollution control device observations, if applicable (e.g., the magnitude and duration of emission escaping from the ductwork, holes or deterioration in ductwork, no deterioration observed, etc.).	Y	No issues were observed with control equipment duct work.
19. Any existing unpermitted emission points, new unpermitted emission points, or non-permitted construction activities observed. (if yes, describe in the comments field).	N	
20. Were any visible emissions observed? (if yes, identify the location and equipment).	N	No visible emissions were observed.
21. Was a Method 9 reading performed? (if yes, identify the location and equipment).	N	
22. Was the cause of the visible emissions investigated and the information documented?	N/A	
23. Was a Method 22 performed for visible emissions? (if yes, identify the location and equipment).	N	

Activity	Yes	Comments
	No N/A	
24. Identify the cause of the visible emissions as explained by facility personnel, if applicable.	N/A	
25. Was the infrared camera used? If so, attach the video log (which includes the equipment ID, and the date and time the video was recorded) and videos to this report.	Y	The air inspection team used the GF306 FLIR camera to observe the 470/471 process vents. Simultaneously, 3M used a GF304 and a GF320 FLIR camera on the same vents. Each camera model has a filter for specific bands of absorbance wavelengths, allowing visualization of different materials. No emissions were observed from the process vents with any of the cameras.
26. Was the TVA used? If so, identify the equipment monitored and the results. Provide the date and time the information was recorded by the inspector. Include actual instrument readings for each piece of equipment monitored above the leak definition and/or where the infrared camera identified a release.	N	
27. Was the PID used? If so, identify how the PID was used and the results. Provide the date and time the information was recorded by the inspector.	N	,

Activity	Yes No N/A	Comments
Closing Meeting		
28. Conducted a closing meeting.	Y	The air inspection team held a close out meeting at 2:10 PM CST on June 25, 2019.
29. Summarize any additional information needed, if applicable?	N/A	
30. Accept a declaration of CBI, if applicable?	Y	The air inspection team did not take any material declared CBI.
31. Discussed observations.	Y	The air inspection team thanked 3M staff for their time and assistance. The inspection focused on the 340 and 470/471 processes, as well as associated control and monitoring equipment. The team also reviewed and discussed permitting requirements for the facility boilers.
32. Discussed next steps, if applicable?	Y	The air inspection team will provide 3M a draft inspection report for review and a final report within 70 days of the inspection.
33. Date and time inspection concluded.		On June 25, at 2:30 PM CST the inspection concluded.
Miscellaneous		
34. Include any additional observations, if applicable.	N/A	

EPA Investigator/Inspector Signature:	
EPA Supervisor Signature & Title	
Date Report Finalized:	

ENCLOSURE B

Confidential Business Information (CBI) Assertion and Substantiation Requirements

A. Assertion Requirements

You may assert a business confidentiality claim covering part or all of the report. If you assert no business confidentiality claim, EPA may make the information available to the public without further notice. To make a confidentiality claim, indicate that you are making a claim of confidentiality on a specific video. Any videos over which you make a claim of confidentiality should be marked by placing on or attaching to the information, at the time it is submitted to EPA, a cover sheet, stamped or typed legend, or other suitable form of notice employing language such as "trade secret" or "proprietary" or "business confidential" and a date if any when the information should no longer be treated as confidential. **You must be specific when identifying the information subject to your claim**. Information covered by such a claim will be disclosed by the EPA only to the extent permitted and by means of the procedures set forth by Section 114(c) of the Clean Air Act (the Act), and 40 C.F.R. Part 2, Subpart B. The EPA will construe the failure to furnish a confidentiality claim with your response to the attached letter as a waiver of that claim, and the information may be made available to the public without further notice to you.

B. Substantiation Requirements

All confidentiality claims are subject to EPA verification and must be made in accordance with 40 C.F.R. Part 2, Subpart B. You bear the burden of substantiating your confidentiality claim and must satisfactorily show that disclosure of the information would be likely to cause substantial harm to your business' competitive position; that you have taken reasonable measures to protect the confidentiality of the information and that you intend to continue to do so; and that the information is not and has not been reasonably obtainable by legitimate means without your consent, among other things. Conclusory allegations will be given little or no weight.

Before EPA makes a final determination regarding your claim of confidentiality, pursuant to 40 C.F.R. Part 2, Subpart B, EPA will send you a letter asking you to substantiate fully your CBI claim by answering 11 questions. Your comments in response to these questions will be used by the EPA to determine whether the information has been shown to meet the requirements so as to be entitled to confidential treatment. You must provide EPA with a response within the number of days set forth in the EPA request letter. Failure to submit your comments within that time will be regarded as a waiver of your confidentiality claim or claims, and EPA may release the information.

EPA will ask you to specify which portions of the information you consider confidential. You must be specific when identifying the information subject to your claim. Please note that if a document claimed by you to be confidential contains a significant amount of information which the EPA determines is not confidential, your confidentiality claim regarding that document, may be denied. Any information not

specifically identified as subject to a confidentiality claim may be disclosed without further notice to you. For each item or class of information that you identify as being confidential, EPA will ask you to answer the following questions, giving as much detail as possible, as conclusory allegations will be given little or no weight in EPA's determination:

- 1. For what period of time do you request that the information be maintained as confidential, e.g., until a certain date, until the occurrence of a specified event, or permanently? If the occurrence of a specific event will eliminate the need for confidentiality, please specify that event.
- 2. Information submitted to the EPA becomes stale over time. Why should the information you claim as confidential be protected for the time period specified in your answer to question #1?
- 3. What measures have you taken to protect the information claimed as confidential? Have you disclosed the information to anyone other than a governmental body or someone who is bound by an agreement not to disclose the information further? If so, why should the information be considered confidential?
- 4. Is the information contained in any publicly available material such as the Internet, publicly available databases, promotional publications, annual reports, or articles? If so, specify which.
- 5. Is there any means by which a member of the public could obtain access to the information? Is the information of a kind that you would customarily not release to the public?
- 6. Has any governmental body made a determination as to the confidentiality of the information? If so, please attach a copy of the determination.
- 7. For each item or category of information claimed as confidential, <u>explain with specificity</u> why release of the information is likely to cause substantial harm to your competitive position. Explain the specific nature of those harmful effects, why they should be viewed as substantial, and the causal relationship between disclosure and such harmful effects. How could your competitors make use of this information to your detriment?
- · 8. Do you assert that the information is submitted on a voluntary or a mandatory basis? Please explain the reason for your assertion. If you assert that the information is voluntarily submitted information, please explain whether the information is the kind that would customarily not be released to the public.
 - 9. Whether you assert the information as voluntary or involuntary, please address why disclosure of the information would tend to lessen the availability to the EPA of similar information in the future.
 - 10. If you believe any information to be (\underline{a}) trade secret (\underline{s}) , please so state and explain the reason for your belief. Please attach copies of those pages containing such information with brackets around the text that you claim to be (\underline{a}) trade secret (\underline{s}) .

11. Explain any other issue you deem relevant (including, if pertinent, reasons why you believe that the information you claim to be CBI is not emission data or effluent data).

Please note that emission data provided under Section 114 of the Act, 42 U.S.C. § 7414, is not entitled to confidential treatment under 40 C.F.R. Part 2. "Emission data" means, with reference to any source of emission of any substance into the air - (A) information necessary to determine the identity, amount, frequency, concentration, or other characteristics (to the extent related to air quality) of any emission which has been emitted by the source (or of any pollutant resulting from any emission by the source), or any combination of the foregoing; (B) information necessary to determine the identity, amount, frequency, concentration, or other characteristics (to the extent related to air quality) of the emissions which, under an applicable standard or limitation, the source was authorized to emit (including, to the extent necessary for such purposes, a description of the manner and rate of operation of the source); and (C) a general description of the location and/or nature of the source to the extent necessary to identify the source and to distinguish it from other sources (including, to the extent necessary for such purposes, a description of the device, installation, or operation constituting the source). 40 C.F.R. §§ 2.301(a)(2)(i)(A), (B) and (C).

Information designated confidential will be disclosed by EPA only to the extent allowed by, and by means of the procedures set forth in, 40 C.F.R. Part 2, Subpart B. If you fail to claim the information as confidential, it may be made available to the public without further notice to you.